The
CHEMIST AND DRUGGIST
RETAILER - WHOLESALER - MANUFACTURER
DECEMBER 18, 1948

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an antibiotic and nasal decongestant

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This stable combination of ephedrine and the antibiotic, tyrothricin, in an isotonic dextrose solution, has been made possible by the use of a solubilizing and stabilizing agent.

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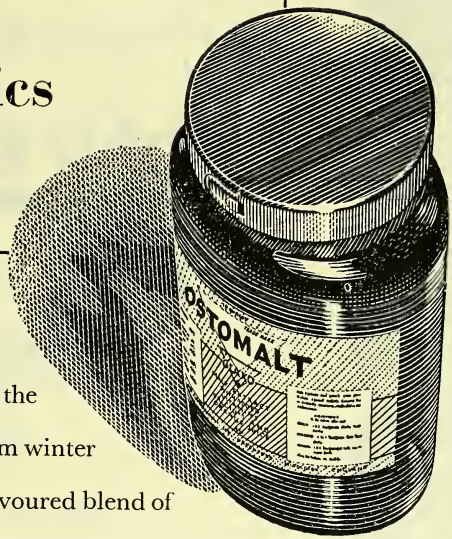

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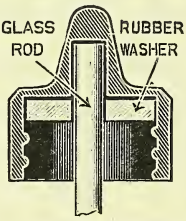

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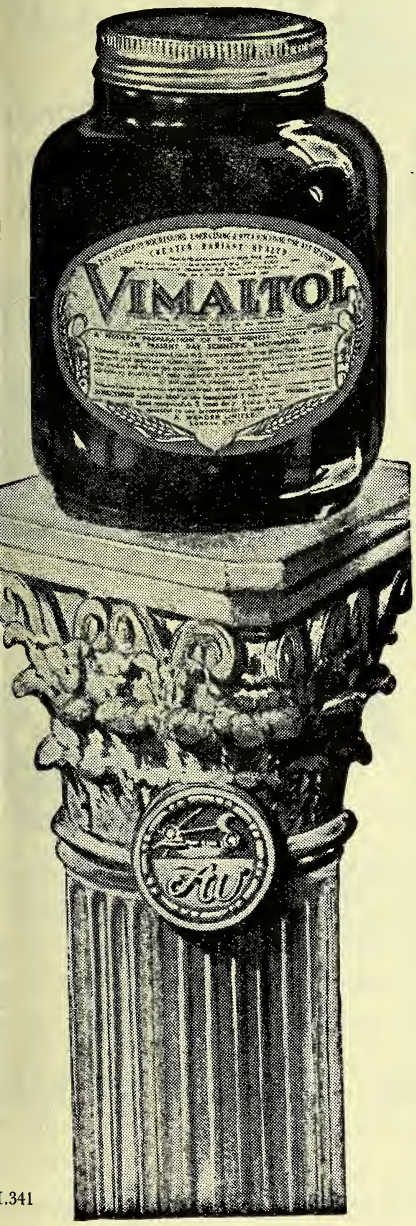

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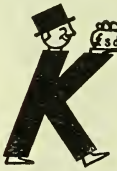

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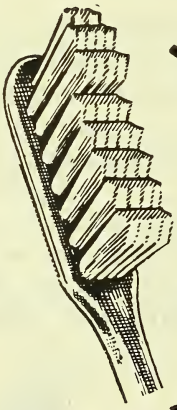

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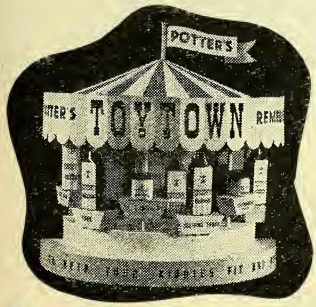

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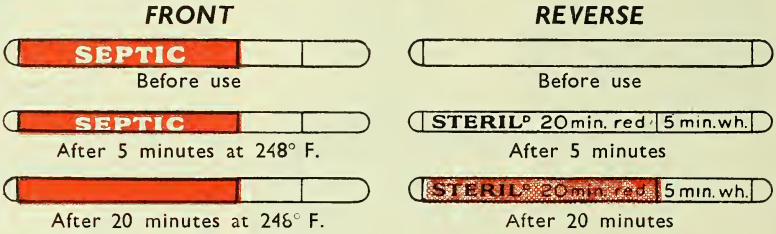

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YOUR INDIVIDUAL REQUIREMENTS ARE PROVIDED FOR BY RED CARNATION BRAND POWDERED GUM TRAGACANTH, WHICH IS NOW AVAILABLE IN FOUR STANDARDISED GRADES, OF CERTIFIED QUALITY AND CHARACTERISTICS.

- GROUND by a special process to ensure controlled tenuity.
- VISCOSITY established under expert supervision.
- TESTED at every stage of processing.
- GRADED to a series of predetermined standards.
- PACKED in airtight tins.

GUM TRAGACANTH is an essential ingredient in many industrial and pharmaceutical formulæ. Being a natural product, with natural imperfections and variations, its commercial applications have, in the past, been attended by problems arising whenever the characteristics of an ingredient are not stable. Now—these problems have been solved by the marketing of RED CARNATION Brand Gum Tragacanth. Whenever you order RED CARNATION Brand Gum Tragacanth, and whatever Grade you order, you know what you will be receiving—Gum Tragacanth in a stabilised form as regards viscosity, colour and fineness of powder. In addition, you are certain that the Gum Tragacanth you receive is fresh, as the large turnover of RED CARNATION Brand obviates the risk of the Gum in stock deteriorating through long storage.

GRADES			
1	2	3	4
BXXX	BXX	BX	BA

- If you have any queries regarding RED CARNATION Brand Gum Tragacanth—*e.g.* which Grade is most suitable to your requirements—our Research Department will be pleased to advise you.

The literature dealing with Gum Tragacanth is not readily accessible to the average commercial user. On request, you can obtain a free, 12 pp. illustrated booklet, telling *The Story of Gum Tragacanth.*

RED CARNATION BRAND
Powdered Gum Tragacanth

KIMPTON BROS. LTD.

Established 1882

Dept. C.D.1—110 Fenchurch St., London, E.C.3 Telephone: ROYal 5544 (4 lines)

Made by MACLEANS

means bought by the Million

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THAT HAS

Everything

Bristle or Nylon

AND GOES

Everywhere

Colours :
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RETAIL PRICE	PRICE PER DOZEN			
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1/4	9/5	9/-	8/3	3/1⅔

Orders for Macleans Toothbrushes may be included to make up the value of display parcels as described in our Price List.
Colourful showcards and show outers will be provided with all orders.

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BRENTFORD, MIDDX

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Slim, graceful, long, Lip Line is sensationally attractive in its beautifully made gold metal case. A transparent tip — protects each Lip Line colour when not in use

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ith interchangeable refills in the ame shades as Gala lipsticks

ot a pencil, not a brush, but the slimmest lipstick ever be made. Giving the steadiest, deftest control in plication, and the marvellous new idea of interchangeble colours!

uick-change refills – one for every dress colour

ach Lip Line refill is contained in its own gold metal shell. A oman can lift out one shell of colour at any time and slip in anther. No soiling of the fingers, as she never touches the colour self. So with every Lip Line case you can sell several Lip Line efills. 'One for every dress colour'! This means *extra* sales for you.

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IP LINE (*Each shade complete in case*)	36/- *per doz.*	7/6 *each*
IP LINE REFILLS (*Each shade in its own metal shell*) -	16/6 *per doz.*	3/5 *each*
LIP LINE WARDROBE (*Case and 4 Refills in plastic tray*) -	85/- *per doz.*	17/9 *each*
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BULK MANUFACTURERS TO THE TRADE

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Antispasmodic . . Anticonvulsive

:: Sedative ::

BELLADENAL combines the central sedative action of phenobarbitone with the peripheral antispasmodic action of the total lævorotatory alkaloids (Bellafoline) of Belladonna leaves. Bellafoline is only half as toxic as atropine in doses which are therapeutically equivalent in their effect on the parasympathetic.

Each tablet of Belladenal contains :

Bellafoline	0.25 mg.
Phenobarbitone	0.05 Gm.

The components of Belladenal act synergetically with each other so that a powerful antispasmodic and sedative effect is obtained with comparatively small doses.

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Follow this tried and tested 'formula' for quick profits

A Household Name — a quick, pleasant, effective throat and chest easer — at a price within everybody's reach — sales supported by powerful advertising throughout the autumn and winter; that's the "formula" that makes Zubes Cough Mixture such a big profit-winner for the chemist, especially in the winter months. Why not make sure that your stocks of Zubes Cough Mixture will meet the increased winter demand?

ZUBES
COUGH MIXTURE

Retailing at 1/6 and 2/9½

MADE BY F. W. HAMPSHIRE & CO. LTD., MANUFACTURING CHEMISTS, SUNNYDALE, DERBY.

An Ideal GIFT LINE!

Behind the "Allure" Perfume Hairbrush is the heavy and sustained advertising at home and abroad which for years has been building up to this moment when, for the present, we can fulfil all your orders.

The "Allure" Perfume Hairbrush is advertised by Showcards on all London Underground trains and on slides in cinemas throughout Great Britain.

Give these brushes prominent display and always show one brush apart as this calls attention to the fact that it is not an ordinary brush.

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Tatler & Bystander
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Sketch
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and compounds are available in a large range of strengths and presentations and are manufactured under conditions of rigid laboratory control.

- EXT. HEPATIS LIQ. BP. AND PROTEOLISED
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- INJECTABLE LIVER IN 2 cc. AMPOULES, CRUDE AND PURE
- LIVER COMPOUNDS WITH VIT. B1 AND YEAST, ORAL AND INJECTABLE

Literature on application

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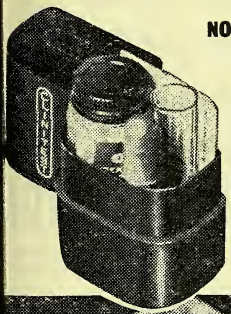
The new one-minute tablet test for detecting urine-sugar

CLINITEST

CLINITEST has been approved by the Medical Advisory Committee of the Diabetic Association. Doctors and Diabetics are writing enthusiastic letters about this unique *tablet* test. It is already widely used in America, Canada and other countries, and is now available in the United Kingdom. CLINITEST is a simple, fast copper reduction test with all reagents compressed in a single tablet. It is based on the same chemical principles involved in the Benedict Test, but with the following unique advantages :



NO EXTERNAL HEATING — The tablet generates its own heat. (No flame or water bath required).

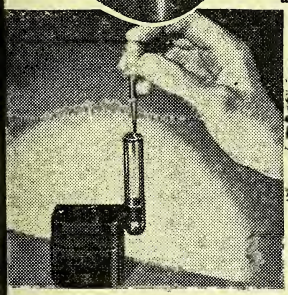
SIMPLICITY . . — Only three simple steps involved. (No measuring of reagents).

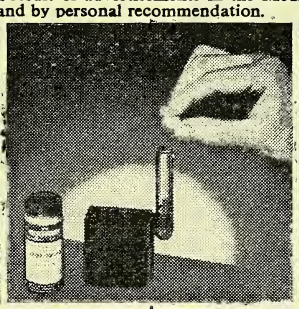
SPEED . . . — The complete test takes less than one minute.

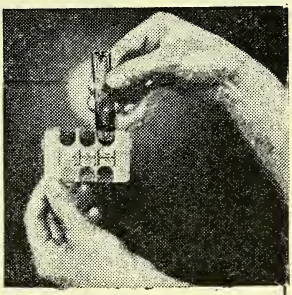
RELIABILITY . . — CLINITEST is equal in sensitivity and reliability to the other standard copper reduction tests.

CONVENIENCE . — All essentials are contained in a hygienic pocket-size case. (No bulky apparatus).

The use of CLINITEST is spreading rapidly among Doctors and Diabetics as a result of advertisements in the Medical Journals, The Diabetic Journal and by personal recommendation.







Every Diabetic will be interested in **CLINITEST**

A supply of illustrated leaflets for distribution to the public with all sales of Insulin and other diabetic products will be sent with all orders.

CLINITEST SET, complete . **12/-** Retail } *Trade Dis.* 33⅓%
REFILL BOTTLE (36 tablets) . **4/-** Retail }

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Sole Distributors for Ames Company, Inc.

A PRODUCT OF THE AMES COMPANY INC., ELKHART, IND., U.S.A.

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To meet the demand for Uralysol dispensed on N.H.S. scripts we have now introduced a 1 lb. Dispensing Pack, supplies of which may be obtained through your usual wholesaler or direct from us.

TRADE PRICE - - - 12/6 + 4/1 P.T. each
(less usual cash discount)

P.A.T.A.

CONTINENTAL LABORATORIES LTD

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UNIVERSALLY ADVERTISED

Limited supplies of this handsome display carton are still available and will appeal to the Chemist who seeks to establish the 1/5 Price Standard. Order from your Wholesaler: 1 Display carton (1 dozen), 1/5. Daisy Tablets at 9/6, plus Tax. (P.A.T.A.)

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★ AMERICAN ★
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JERGENS LOTION Honey & Almond Fragranc A powder base and aft shaving cream. 6½ fl. ozs. 32/- per doz.

HINDS CREAM For use on hands and face. Hone and Almond Fragrance. 4½ fl. oz 26/- per do

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(Dept. C.D.)

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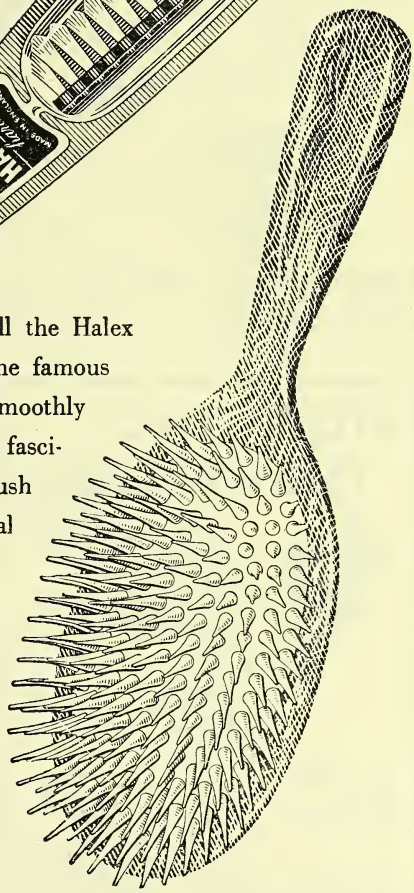
It pays to display your ***HALEX*** *goods!*



Let your window and your counter tell the Halex story. Show people that you stock the famous *Rondated* toothbrushes with the smoothly tipped nylon strands. Cash in on the fascinating look of the Halex Combing Brush with its flexible plastic quills. This unusual instrument is fast becoming a fashion as well as a favourite with women who take a pride in their hair.

Then there are the ever-popular pneumatic hairbrushes with their firm but springy nylon tufts, dainty baby sets, toilet sets, saw-cut combs and colourful fancy goods of every kind.

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RONDATED is a registered trade name of Halex Limited.

It's an EDME product!

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A nourishing and sustaining

MALT FOOD BEVERAGE

of OUTSTANDING merit

Retails at 1/8 per 6 oz. tin
Wholesale 13/6 doz.

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STOCK THIS TOOTH PASTE!

Everybody will like this new tooth paste with the extra strong peppermint flavour that lasts.

ATTRACTIVELY PACKED IN ONE DOZEN. DISPLAY OUTER.

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PER TUBE

1/9 INCL. P.T.

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20th ANNIVERSARY

JAMES HARDCASTLE & CO

(JAMES HARDCASTLE (SPECIALTIES) LTD.)

wish to announce the appointment as SALES MANAGER *of*

Mr. A. R. WITHEY

(Late of the Colgate-Palmolive-Peet Sales Organisation)

and as from the 25th DECEMBER *their change of address*

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Their future aim is to improve still further their service as WHOLESALE CHEMISTS' SUNDRIESMEN

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TYE *a knot ... remember*

Now is the time to order

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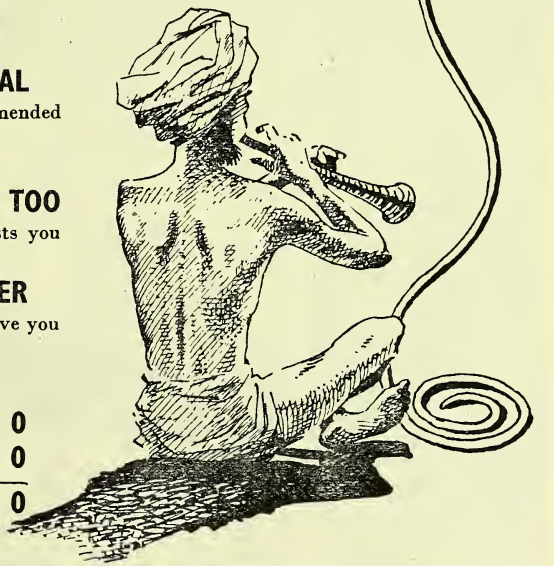
VITAMIN CAPSULES

● EACH CAPSULE CONTAINS
HALIBUT LIVER OIL M.3
(Vit. A 4500 i.u., Vit. D 600 i.u.)

+ *PLUS* +

Vitamin B1 (Aneurin hydrochloride) ...	0.3 Mg.
Vitamin B2 (Riboflavin) ...	0·5 Mg.
Vitamin C (Ascorbic Acid) ...	15·0 Mg.
Vitamin E (Tocopheryl acetate)	0.15 Mg.
Calcii Phos.	20.0 Mg.
Ferri Phos.	100.0 Mg.



TYEVITE IS ECONOMICAL

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A 5/- Tin contains 25 days supply

TYEVITE IS PROFITABLE TOO

One Display carton of 12 Tins costs you 40/- BUT

FOR CASH WITH ORDER

We allow you 2½% discount and give you

A BONUS TIN

in every dozen.

Nett Outlay	£1 . 19 . 0
13 Tins sell for	3 . 5 . 0
PROFIT	£1 . 6 . 0

One of the range of TYE BRAND products made by John Tye and Son Ltd., London, N.7
Manufacturing Chemists and Capsule Makers for over a Century

Gum Tragacanth

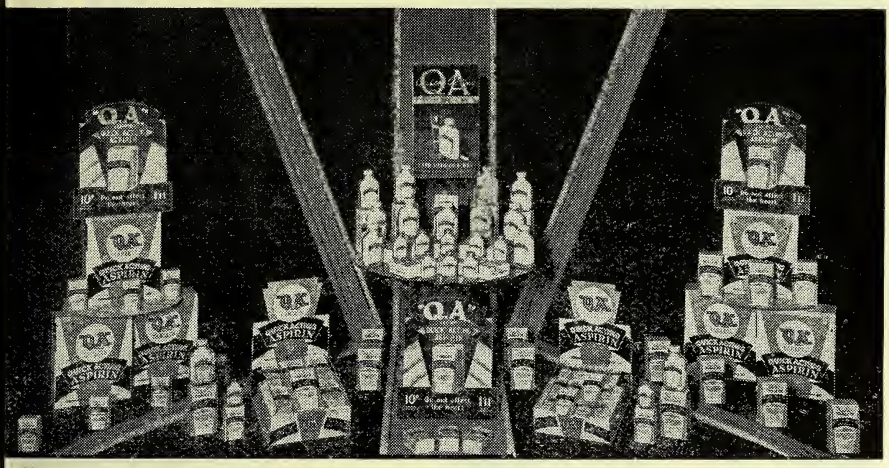
N. S. DANGOOR LTD.
Suppliers to the Industry
PROVINCIAL HOUSE, 98-106, CANNON STREET, LONDON, E.C.4.

A line with a distinctive appeal and a constantly growing reputation

Q.A. BRAND QUICK ACTING ASPIRIN TABLETS

Very good 5-grain Aspirin Tablets, made so that they disintegrate immediately they are swallowed and consequently begin to take effect at once. In a great many chemists' shops Q.A. Aspirin Tablets have proved to be a line well worth specialising upon. Where once offered, repeat business is the rule, and an increasing demand through the recommendation of those who have tried them.

Retail prices, 25 tablets, 10d., 100 tablets, 1s. 11d.
(Including purchase tax)



This illustration shows one of the window displays which we shall be glad to install free, by arrangement.

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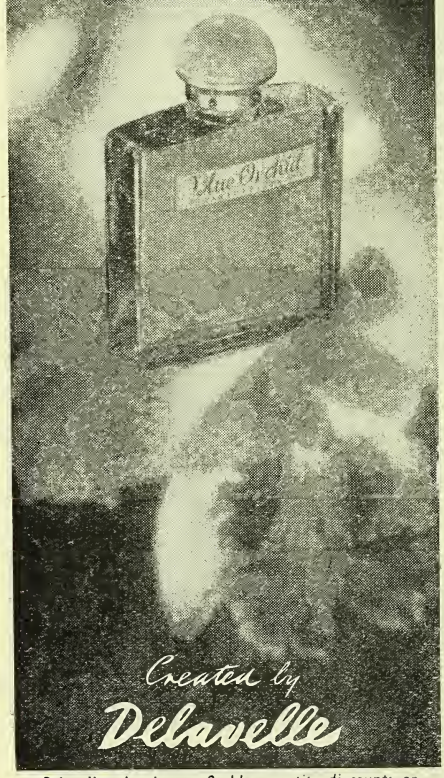
Telephone: Hunt's Cross 1321 *Telegrams:* Sanitas, Liverpool

Blue Orchid Perfume



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THE VULFIX "ELITE" TRAVEL BRUSH
A Best Seller of Outstanding Quality

Products of Progress
THE VULFIX TIDY SHAVER
attractive Brush, complete with PLAQUE ready for fixing.
THE VULFIX SERVICE BRUSH
HIGH QUALITY
SOLIDLY BUILT
Makes an IDEAL GIFT

PROGRESS Shaving Brush Co. Ltd
MOTTRAM STREET, STOCKPORT
(Phone : Stockport 2147) *also at*
49 LEADENHALL STREET, LONDON, E.C.3
(Phone : ROYAL 2857)

Net News!

Shaw's popular Surefit 99 Setting Net, with extra elastic, is now

available for the home market

Packed 3 dozen on head showcard or each net in attractive, new envelope. Your Wholesaler has plentiful supplies.

Wholesale and Export:
ROBERT SHAW & CO. LTD., NOTTINGHAM

It's BETTER BUSINESS to-

boost your 'KEPLER' sales, for there is a bigger profit for you on every jar of 'KEPLER' you sell. A great national advertising campaign is making the public 'KEPLER' minded — now it's up to you — a prominent display featuring attractive Showcards and Crowner Cards means BIGGER SALES with **BIGGER PROFITS.** Ample supplies of 'KEPLER' are at present available, so stock up at once !

-Keep 'KEPLER' to the fore

BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) **LONDON**

WARRICK BROTHERS, LTD.

Manufacturers of Fine Products
for the
Discriminating Pharmacist.

PASTILLES
LOZENGES
TABLETS
CAPSULES
OINTMENTS
PILE PREPARATIONS

You can always depend on the
high standard of quality
that is consistently maintained.

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WARRICK BROS. LTD. NILE ST. LONDON, N.1.

The
CHEMIST AND DRUGGIST
for RETAILER—WHOLESALER—MANUFACTURER
DECEMBER 18, 1948
Published weekly at 28 Essex Street, Strand, London, W.C.2
Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."
ngle copies 1/- each. Annual subscription, which includes The Chemist and Druggist Diary and Year Book, 30/-

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NEWS OF THE WEEK

Broadcasts for Lost Drugs.—The British Broadcasting Corporation is discussing with Scotland Yard representations made by the Pharmaceutical Society that, in broadcasts for lost drugs, naming the drug does not help to recover it and may disclose to the patient the nature of his treatment.

Engagement Control Extended.—The Minister of Labour has extended the operation of the Control of Engagement Order, 1947 (which provides for the engagement of employees through the Ministry of Labour, or through approved employment agencies) to January 1, 1950.

Anti-opium Agreement. — The international agreement on the suppression of opium smoking, as amended by a protocol which provides for the administration to be done through the United Nations, has been published by that organisation. Copies may be obtained from H.M. Stationery Office, price ninepence each.

Survey for Chemical Industry.—Mr. Harold Wilson (President of the Board of Trade) announced on December 14 that the Government had taken the first steps towards a comprehensive survey of the chemical industry. The Association of British Chemical Manufacturers has agreed to try to produce a report by the middle of 1949, and the Trades Union Congress has been consulted. No policy decisions are to be made without further consultations on both sides of the industry.

Brighton Conference Finances. — A balance sheet issued recently by the local committee of the British Pharmaceutical Conference held at Brighton, August 30-September 3, shows that receipts exceeded expenditure by £77. Net receipts from the sale of conference tickets amounted to £2,154, various pharmaceutical companies contributed £170, and other donations amounted to £15. Total expenditure was £2,262. The surplus has been returned to the companies that contributed, in proportion to their original donations.

Relaxation of Dyestuff Controls.—The Board of Trade announces relaxation of controls which prohibited the sale and supply of dyestuffs and intermediates except

under licence. Import and export regulations are unaffected, and licences are still required. Controls of the acquisition, disposal and use of caustic potash and carbonate of potash are also relaxed, consumer's licences being no longer required. Other arrangements governing imports, exports, methods of distribution, and prices continue as before. The changes take effect on January 1, 1949.

Institute of Optical Science. — At a meeting of the Council of the Institute of Chemists-Opticians held in London on December 8 it was decided that the organisation should be incorporated on a non-profit-making basis, under the title "Institute of Optical Science." The objects are the "development and advancement of the technical education and training of those engaged in the ophthalmic and allied optical sciences." The Institute is to conduct examinations and award diplomas, and is to open a school in London. The following officers have been elected: *President,* Dr. Walter Simpson; *Vice-president,* Mr. R. Goode; *Treasurer,* Mr. L. Pegg.

Health Service Advisory Committees.—On the recommendation of the Central Health Services Council the Minister of Health has decided to set up the following Standing Advisory Committees:—Medical, Dental, Pharmaceutical, Ophthalmic, Nursing, Maternity and Midwifery, Tuberculosis, Mental Health, and Cancer and Radiotherapy. The Medical, Dental, Pharmaceutical, and Ophthalmic Committees are to be professional in character, while the remaining committees are to include lay members. The Central Health Services Council has also decided to set up two committees of the council itself, one on health centres and the other on hospital administration.

Chemists Federation.—At a meeting of the Chemists' Federation Council, held in London on December 2, it was decided to extend the C.F. window display service to Lancashire, Cheshire, Breconshire, Cardiganshire, Carmarthenshire, Glamorganshire, Monmouthshire, Pembrokeshire and Radnorshire. Applications for wholesaler membership were accepted from: Callander & Tully, Ltd., Edinburgh; Fairbank Kirby (Wholesale), Ltd., Grimsby; and Mawson & Proctor Pharmaceuticals, Ltd., Newcastle-on-Tyne. The following additions to the schedules of C.F. agreements were approved:—Sharp & Dohme, Ltd. (Bo-Car-Al Cremomerazine); Wigglesworth, Ltd., (Anti-pain chilblain ointment). was decided that manufacturer membe should be asked to discontinue using i their advertisements and on their labels th now obsolete symbol incorporating th words "Chemists Formula."

W.H.O. Interim Report.—The report the Interim Commission of the Wor Health Organisation, recently publishe shows that the expert committee for th unification of pharmacopœias, at its fir session (in 1947), considered for inclusio in an international pharmacopœia 54 drugs. 248 were deemed of primary im portance and ninety of secondary impor ance. The seventy-three monographs o important drugs already adopted by th League Technical Commission were re viewed and adopted. Thirty draft mono graphs were discussed and accepted, an the preparation of 173 additional mono graphs was assigned to various members c the Committee. The expert committee o biological standardisation at its first sessio adopted international standards for vitami E, heparin, and penicillin, and began pion eer work in the standardisation of antigeni substances.

Advance Payments to Chemists.—Th Minister of Health has issued to Executiv Councils a circular giving effect to a de cision (see *C. & D.,* December 4, p. 731 to make advance payments to chemist con tractors under the National Health Servic on the basis of 80 per cent. of the chemist' average total cost per prescription (includ ing container allowance) for the lates month in which his prescriptions were full priced. Where 80 per cent. of the chemist' average total cost per prescription, as ascer tained by the pricing office, is less than th amount per prescription (1s. 10d.) author ised under circular letter E.C.L.95, th advance payment is to be made at the rat of 1s. 10d. per prescription. Executive Councils are being advised by the pricing offices, before the end of December, of th appropriate figure per prescription for each chemist in the area. Advance payments will not be made in any area in which the Executive Council is notified by the pricing office that pricing for the month will be completed in time to enable full payment to be made by the normal date. Advance payment will not be made to a chemist unless he submits a completed Form E.C.38 with his bundle, and unless the bundle is received in the pricing office by the tenth of the month following that to which the prescriptions relate.

LOCAL NEWS

Sheffield Pharmaceutical Committee.—he following appointments have recently en made—*Chairman,* Mr. C. W. Hobn; *Vice-chairman,* Mr. A. Wragg. Messrs. Hobson and Wragg are also the harmaceutical representatives on the heffield Executive Council.

Food Points Account Disallowed.—n application for a points banking acount, made by Mr. R. Goronwy Jones, .P.S., Wellington Road, Rhyl, to Rhyl ood Control Committee, was refused rently on the ground that the sale of bisuits should be restricted to grocery and rovision shops.

A Medical Officer on N.H.S.—A talk n the working of the county National Health Service organisation was given at meeting of the Durham County Branch f the Pharmaceutical Society on December by Dr. Ian McCracken (county medical fficer). The N.H.S. Act, he said, gave he Minister of Health great scope for making regulations. Dr. McCracken had found he Minister to have an immense knowledge f even the minor details of the scheme.

Payment Delays in Edinburgh.—At a neeting of the Edinburgh Executive Counil on November 25, Mr. J. C. Somerville chairman, Edinburgh Branch, Pharmaceuical Society) asked for relief from the burlen placed on chemists by delays in paynent. Mr. T. J. Addley (chairman of the Executive Council) said the Drug Accounts Committee in Glasgow was working at full pressure and with short staff. It was hoped o open another pricing centre in Glasgow but staffing would again be a difficulty.

Glasgow N.H.S. Discussion. — At a neeting of the Glasgow and South-western Scottish Branch of the Pharmaceutical Soiety held in Glasgow on December 8, Mr. Samuel Hughan in the chair, Dr. David McCall (resident secretary, Scottish Department, Pharmaceutical Society) spoke on pharmaceutical organisation and representation in the National Health Service. The questions and discussion that followed centred on the delay in payments to pharmacists, the practice of some doctors of putting too many prescriptions on one form, the professional status of pharmacists compared with doctors and dentists, and the rota service system. Mr. Sidney Home (vice-chairman) proposed a vote of thanks to the speaker. It was agreed that the present branch committee, with power to co-opt additional members, should be empowered to make the preliminary arrangements for the British Pharmaceutical Conference, Glasgow, in 1950.

Lectures on 1948 B.P. — Lectures on the British Pharmacopœia, 1948, were given at a recent meeting of the Tees-side Branch of the Pharmaceutical Society by Dr. J. M. Rowson, M.Sc., Ph.C., and Mr. W. Nixon, Ph.C. (pharmacy department, Sunderland Technical College). Dr. Rowson gave illustrations to show how the new B.P. reflected modern trends in pharmaceutical, medical and analytical practices. Mr. Nixon dealt with newly-introduced monographs.—A lecture on the history of the British Pharmacopœia and on the contents of the 1948 B.P. was given at a meeting of the Bath Branch of the Pharmaceutical Society on December 1 by Mr. W. Cooper, Ph.C. (head of the School of Pharmacy, Merchant Venturers' College, Bristol). Illustrating his talk with specimens of earlier editions, Mr. Cooper explained how the B.P. had developed from a book of recipes to a book of standards. Mr. A. H. Hale was in the chair.—A lecture on the pharmaceutical preparations of the new B.P. was given at a crowded meeting of the Eastbourne Branch of the Pharmaceutical Society recently by Mr. R. R. Bennett, B.Sc., Ph.C. Replying to a question, Mr. Bennett said that ammonium carbonate should be used if a B.P.C. preparation containing it were ordered. Although the B.P. did not recognise coated tablets, he was of the opinion that, provided the stripped tablet conformed to the monograph, it would be in order to supply the coated variety.

150 YEARS IN BUSINESS. Under various titles embodying the names Kemp and Glaisyer, the business of Glaisyer & Kemp, Ltd., Brighton, has achieved a century and a half of existence. The present directors are Messrs. A. W. and F. J. Guy.

IRISH NEWS

Eire Chemists' Rugby Football.—During November the Irish Chemists' Rugby Football Club has won three matches and drawn one.

Payments to N.I. Chemists.—The Northern Ireland General Health Services Board has announced that interim payments made to chemists by the end of October amounted to £136,072.

Home Office Services in Northern Ireland.—A "Report on the Administration of the Home Office Services 1939-46," issued recently by the Northern Ireland Government, includes a review of pharmacy administration covering registration, issue of licences, inspections, new legislation, and prosecutions.

Digestive Tablets Warning.—Digestive tablets sold from a confectioner's kiosk in Belfast, and blamed for the illness of two persons in Londonderry, have been withdrawn from sale. Samples are being analysed. The Ministry of Health has warned the public that the tablets, packed in small, triangular transparent envelopes measuring 3 in. x 1½ in., are about the same size and shape as aspirin tablets and are coloured pink, pale green or lemon. A triangular label inside the envelope describes the tablets as digestive foods.

OVERSEAS NEWS

Penicillin Laboratory for Egypt.—The Egyptian Ministry of Health plans to erect a penicillin laboratory to serve the needs of the country.

Mexican Customs Tariff Amendments.—The Mexican Government has issued revised lists of import duties with effect from October 25. The rates for drugs and medicines, etc., and for disinfectants, have been reduced.

Italian Olive Oil Crop.—Italian output of olive oil during the 1948-49 season is expected to reach 1,300,000 quintals (approximately 130,000 metric tons) which is equal to output during the year 1946-47 but about one million quintals below last year's bumper crop.

Polish-Argentine Trade Agreement.—A three-year trade and payments agreement, to expire on December 31, 1951, has been concluded between Poland and the Argentine. Argentine purchases from Poland will include chemical and pharmaceutical products.

Egypt's Imports. — The Egyptian Ministry of Commerce and Industry has prepared a preliminary statement of "indispensable" items (and their value) to be imported in 1949. The list includes pharmaceutical products, £E930,000, and chemical products, £E620,000.

Drug Trials in Malaya. — A team of workers led by Major R. Traub (head of the department of virus and rickettsial diseases, United States Medical School, Washington, D.C.), has arived at Kuala Lumpur, Malaya, to conduct experiments in the use of Chloromycetin in the treatment of typhoid and the prophylaxis of scrub typhus.

Turkish Medical Exhibition.—Exhibitors at a recent international medical exhibition in Ankara, which was concurrent with the Turkish medical congress, included Boots Pure Drug Co., Ltd.; Burroughs Wellcome & Co.; International Chemical Co., Ltd.; Imperial Chemical Industries Ltd.; and John Wyeth & Bro., Ltd. The congress and exhibition marked the twenty fifth anniversary of the founding of the Turkish Republic.

Commonwealth Pest Control.—The report for 1945-46 and 1946-47 of the Imperial Parasite Service (now the Bureau of Biological Control) of the Commonwealth Agricultural Bureaux, published by H.M. Stationery Office, records that during the earlier year over 800,000 and during the later year over 500,000 pest parasites were dispatched to the Commonwealth. Parasites against the European frit-fly, grasshoppers, potato tuber moth, and prickly pear were among those sent.

German Penicillin.—Germany's largest penicillin plant is to be established in the former I.G. Farben plant at Hoechst, nr. Frankfurt. Information and technical assistance will, it is understood, be provided (under a contract drawn up jointly by the Joint Export Import Agency and the decartelisation branch of the U.S. Military Government) by Merck & Co., Rahway, New Jersey. The plant, now under the direction of an independent company, will be owned by Farben Werke-Hoechst, and Messrs. Merck will be paid on a royalty basis. Western German penicillin requirements are estimated at 80-90,000 million international units monthly. Only 10 per cent. of this amount is met by current production. Monthly production from the new plant is expected to total 100,000 million units.

TOPICAL REFLECTIONS

ublicity Posters

Not having seen specimens of the posters repared by the National Chamber of rade for a publicity scheme advocating private" business enterprise (p. 749), I m unable to comment on their merits. It ay confidently be hoped that they are an mprovement on some of the irritating adertisements issued by a few Government epartments. As the National Pharmaceutial Union Executive has received no overhelming encouragement to revive its idea f collective advertising on behalf of retail hemists, those of them who realise that heir business does not consist entirely of National Health Service dispensing may vell turn their attention to this offer by the National Chamber of Trade. The question s how the merits of the individually owned usiness or the small limited company can e conveyed to the man in the street. The word "private" is not very satisfactory in his connection: it has various meanings in rdinary life, and fails to convey the allimportant feature of personal service. The fact that many businesses of moderate size are, for good reasons, organised as limited companies (though the shares are held by relatives or friends) may obscure, for the passer-by, the difference between such concerns and large companies with potentially unlimited capital. Practical suggestions on methods of publicity for small businesses are always welcome, especially if they offer hope of a desirable alternative to the description "private" as applied to traders.

Hard Times for Universities

Your editorial article on p. 765, distilling the essence of a long report by the University Grants Committee, makes it clear that British universities have entered a period of strain which may continue for several years. The immediate task of completing the courses of students whose terms of residence were interrupted by war service is, I gather, well in train; the major trouble will arise when these candidates have been through their final examinations and younger students arrive. If conditions of entry to a university are made too severe—and already one reads complaints on that score—scholars who develop relatively late will be prejudiced and may even be excluded. If, on the other hand, these conditions are rendered too easy, an unwise increase in the number of candidates accepted will be a strong temptation. As the report points out, a strain on the teaching staffs can be borne as an expedient but the same strain may not be bearable indefinitely. One principle is fundamental to all the rest: in teaching and research alike there must be no lowering of accepted standards. What this principle may involve in discomfort and stress is plainly indicated in your summary. Personal gifts of money, if they come, will not quickly solve the problem of erecting new buildings; shortage of materials and housing priorities will take their toll. Prospective pharmaceutical students and their parents or guardians will do well to ponder this subject in all its implications.

A Notable Anniversary

The name of Bell means so much in British pharmacy that your illustrated article on the hundred-and-fiftieth anniversary of the business long known as John Bell & Co. (pp. 767-71) must have already found many readers. It took my thoughts back to the reminiscences contributed to your columns in January 1927 by the late Mr. Walter Hills, Ph.C., who was connected with the business as assistant, partner and proprietor from 1871 to 1910. I seldom pass 225 Oxford Street, W.1 without an inward sigh over the disappearance from that street of the characteristic shop front—now, as you mention, a museum piece. The Oxford Street of 1798 was a thoroughfare with marked differences from that of 1948. Paving and the numbering of premises had not long been introduced. Highway robbery had not long ceased—if, indeed it had ceased. Regent Street, now intersecting Oxford Street near No. 225, had not been laid out; communication with Piccadily was by way of Swallow Street, a small section of which remains at the southern end. The little court next door but one to the shop (a court now aptly named Hills Place) was known as Queen Street and contained fourteen houses. The John Bell premises are shown in a contemporary map as possessing a garden. In your account of the centenary of the business in 1898 you reproduced a photograph of Hunt's picture of the laboratory (*circa* 1850) behind the front shop. I have been told that the annoyance of the John Bell staff at the untidiness bestowed by the artist on the arrangement of the apparatus was considerable. Tidiness was, of course, not the only virtue cultivated in that historic pharmacy. Its traditions have been preserved throughout the evolution of a distinguished business.

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COMPANY NEWS

Pool Bank Pharmacy, Ltd. (P.C.).—Capital £2,000. Doris Wild, M.P.S., and Lawrence E. Hibbs, directors. R.O.: 74 Palmerston Street, Bollington, Ches.

Morgan & Williams (Chemists), Ltd. (P.C.).—Capital £1,000. To carry on the business of chemists, druggists, etc. William W. Morgan and Mervyn Wililams, directors. R.O.: 38 Wells Street, Cardiff.

Kennedy & Evans, Ltd. (P.C.).—Capital £2,000. To carry on the business of chemists, druggists, etc. Mrs. Margaret E. Evans, Myfyr G. Jones, M.P.S., and Robert W. Evans, directors. R.O.: The Cross, Neston, Ches.

Stephen P. Sayers, Ltd. (P.C.). — Capital £2,000. To carry on the business of retail chemists and druggists, etc. Stephen P. Sayers, M.P.S., and Anthony M. Sayers, directors. R.O.: 7 Rosemount, West Byfleet, Surrey.

Helena Rubinstein (Eire), Ltd. (P.C.).—Registered in Dublin. Capital £1,000. To carry on the business of beauty specialists, etc. First directors are not named. Subscribers' address: Annaville Park, Dundrum Road, Dublin.

H. R. Browne (Chemists), Ltd. (P.C.).—Capital £2,000. To carry on the business of manufacturing and retail chemists and druggists, etc. Etty M. Browne and Irene M. Clarke, directors. R.O.: 44 Cornfield Road, Eastbourne.

Fields Mineral Waters, Ltd. (P.C.).—Capital £5,000. To acquire the business of a mineral water manufacturer carried on at North Riverside Works, Archers Road, Runham Vauxhall, Great Yarmouth. Henry J. P. Bromfield, director.

E. P. Downing, Ltd. (P.C.).—Capital £3,500. To acquire the business of a chemist and druggist carried on at High Street, Welwyn, Herts. Eldred P. Downing, M.P.S., Colin E. Downing and Edith A. Downing, directors.

L. B. Holliday (Holdings), Ltd. (P.C.).—Capital £100. To acquire the whole of the issued share capital of L. B. Holliday & Co., Ltd., and to carry on the business of chemical manufacturers, etc. First directors are not named. R.O.: Leeds Road, Deighton, Huddersfield.

Manhattan Cold Permanent Waving Co., Ltd. (P.C.).—Capital £200. To carry on the business of manufacturers and sellers of permanent waving solutions and sets, etc. John H. Slack and Ann Slack, directors. R.O.: 10 Cotton Lane, Withington, Manchester.

Lewis' Herbal Medicinal Products, Ltd. (P.C.).—Capital £1,000. To carry on the business of herbalists, growers and collectors of, and dealers in, and preparers of herbs, etc. Edward Charlton and Percy A. Lewis, directors. Solicitor: Ian M. Hezlett, 15 Park Street, Windsor.

Laminated Latex, Ltd. (P.C.).—Capital £5,000. To carry on the business of manufacturers of, and dealers in, prophylactics, baby comforters, hot-water bottles, etc. First directors are to be appointed. E. C. Thorne, secretary. R.O.: Swinley Buildings, Bath Road, Slough.

Moldex (London), Ltd. (P.C.).—Capital £1,000 To carry on the business of manufacturers of, and dealers in, all kinds of materials and articles composed wholly or partially of latex, synthetic and/or natural rubber, etc. Paul P. Forbes and Francis E. Daniels, directors. R.O.: 156 Ballards Lane, Finchley, London, N.3.

Howard & Sons, Ltd.—Mr. D. V. E. Howard has been appointed a director.

A. Boake, Roberts & Co., Ltd.—The interim dividend is maintained at 10 per cent.

John & E. Sturge, Ltd.—Messrs. J. A. Watson and A. R. Foxall, and Dr. E. R. S. Winter, have been appointed directors as from January, 1, 1949.

Drug Houses of Australia, Ltd.—Mr. Lionel A. Poole (chairman and managing director, Elliotts & Australian Drug Pty., Ltd., Sydney) has been appointed chairman in succession to Mr. W. Russell Grimwade, who has retired from the board.

BUSINESS CHANGES

Southampton Co-operative Chemists, Ltd., have opened a pharmacy at 103 High Street, Shirley.

Evans Medical Supplies, Ltd., have appointed Mr. J. T. Laurie, Ph.C., as their representative calling on doctors and pharmacists in Edinburgh and east central Scotland.

Mr. H. R. Milne, M.P.S., has acquired the pharmacies at 86 High Street, and 1 York Place, Perth, formerly carried on as W. D. Brunton & Son, by Mr. J. G. G. Brunton, M.P.S.

Mr. A. M. McKellar, M.P.S., has acquired the business at 307 High Street, Cowdenbeath, Fifes, formerly carried on by Mr. J. W. Barclay, M.P.S.

Mrs. Agnes Caldwell is continuing on her own account the business of Anderson & Ireland, 513 Springburn Road, Glasgow, following the retirement of her partner, Mr. Robert M. Logan.

Savory & Moore, Ltd., 143 New Bond Street, London, W.1, have acquired the business and prescription books of Squire & Sons, Ltd., Oxford Street, London, W.1 (in voluntary liquidation).

Parade Drug Stores has been adopted as trading title by Mr. A. D. Hillyard-Jones, 26 North End Parade, North End Road, West Kensington, London, W.14.

The executors of the late Mr. R. H. Fawcett, M.P.S., are continuing the business at 36 Market Street, Kirkby Stephen, Westmorland, under the same title. Mr. William Fare, M.P.S., is continuing as manager.

James Hardcastle & Co. (James Hardcastle (Specialities), Ltd.), have appointed Mr. A. R. Withey sales manager. From December 25 the company's address will be 432 Edgware Road, London, W.2 (Telephone: Cunningham 3652).

MARRIAGE

DUNN-KEPPIE. — In Edinburgh, on November 23, Robert Erskine Dunn, M.P.S., 14 Park Crescent, Edinburgh, 9, to Sarah Allan Keppie, Edinburgh.

DEATHS

DAISH.—On December 6, Mr. Alfred William Daish, Ruff Lane, Ormskirk, Ches, aged seventy-nine. Mr. Daish, who was a director of Garsides, Ltd., chemists and grocers, Ormskirk, was at business earlier in the day.

DAY.—Recently, Mr. John Day, Grove Villa, Hepworth, Yorks, aged ninety-six. Mr. Day qualified as a chemist and druggist in 1876 and for many years controlled a number of chemists' shops in the Dewsbury and Mirfield district of Yorkshire. His early experience was gained in London, but he moved to the north seventy-three years ago and retired from active business about thirty years ago. One of the oldest chemists in the country, he had a high reputation in the heavy woollen district.

HAMILTON. — At 19 Burrell Square, Crieff, Perths, on November 1, Mrs. Margaret Phillips Hamilton, widow of the late Mr. Francis Hamilton, M.P.S.

HARROP. — On December 11, Mr. G. Harrop (chairman of Dixor, Ltd., St. Leonard's Works, Mortlake, London, S.W.14). Mr. Harrop was one of the founders of the company and was held in great esteem by all his colleagues and business friends.

HOGAN. — At his home, 25 Church Street, Athlone, Eire, on December 7, Mr. John William Hogan, M.P.S.I., formerly of the Longford Drug Co. Mr. Hogan was registered as a pharmacist in 1911.

MAXWELL.—At Gannochy, Inch Park, Kelso, on December 1, Mr. John Maxwell, 15 Square, Kelso. Mr. Maxwell qualified as a chemist and druggist in 1892.

MORRISON.—At 17 Main Street, Bannockburn, Stirlings, on October 19. Mrs. Agnes Rodger Morrison, the wife of Mr. David Russell Morrison, M.P.S.

MELLOR.— On November 20, Mr. Thomas Edgar Mellor, M.P.S., 140 Gibbet Street, Halifax, Yorks. Mr. Mellor qualified in 1909.

TIRRELL. — On September 20, Mr. Arthur William Tirrell, 4 Bridge Street, Congleton, Ches. Mr. Tirrell qualified as a chemist and druggist in 1897.

PERSONALITIES

MR. EDGAR JONES, Ph.C., Brighton, is convalescent after a serious illness.

MISS C. E. CULBERT, M.P.S.N.I., who has been elected president of the Ulster Chemists' Association, is the first woman to have held that office. In taking office she brings to the forefront again a name honoured in the Association's history, for her father (Mr. J. Carroll Culbert, M.P.S.N.I., the founder of J. Carroll Culbert, Ltd., Belfast) was a founder - member and president in 1926. Miss Culbert is the proprietor of Balmer's Pharmacy, Belmont Road, Belfast.

MR. H. G. MOSS, M.P.S. (managing director of E. Moss, Ltd., Feltham, Middlesex), was on December 1 installed Master of the Temple of Staines, Masonic Lodge No. 5904, by his father, Mr. E. Moss, P.P.G.J.D. (who is the governing director of the company). Many pharmaceutical friends were present at the ceremony.

MR. DENIS V. E. HOWARD, who has been appointed a director of Howards & Sons, Ltd. (see p. 786) is second son of Mr. Geoffrey E. Howard (chairman of the company). He was educated at Wellington College and Christ Church, Oxford, and during 1939-45 war served as a captain with the Fourteenth Army.

MR. ARCH. WILSON, M.P.S., who has been elected the first honorary vice-president of the Brighton and Hove Association of Pharmacy, receives in that way the recognition of his colleagues for his services as secretary during the past eight years. Mr. Wilson was secretary of the local Conference committee, 1948.

MR. J. G. G. BRUNTON, M.P.S. (of W. D. Brunton & Son), has sold his two shops in Perth and is to leave with his wife and family for South Africa in January. Mr. Brunton's pharmacy at 1 York Place was established over fifty years ago by his father, Mr. W. D. Brunton, while that at 86 High Street was opened in 1933.

TRADE NOTES

Discontinued. — May & Baker, Ltd., Dagenham, Essex, state that M. & B. 693 oral suspension has been discontinued. No further stocks are available.

Electrically heated Pads.—Isopad, Ltd., 14 Poland Street, London, W.1, have issued a new two-colour folder giving details of several items in their range of electrically heated pads and blankets.

Pill and Ointment Boxes.—Robinson & Sons, Ltd., Wheat Bridge Mills, Chesterfield, state that their pill and ointment boxes are now back to pre-war quality. An announcement appears on another page of this issue.

Price Note. — Lusty's Natural Products Co., Westcliff-on-Sea, Essex, point out that the retail prices of their Herbalene tonic were incorrectly described as "prices to retailers" in a recent advertisement in the *C. & D.*

Price Increase. — Evans Medical Supplies, Ltd., Speke, Liverpool, 19, and London, point out that the prices of pulpy kidney serum (Evans) in 50-c.c. and 100-c.c. containers was recently increased.

In Ample Supply. — Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, state that ample supplies are now available of Neo-Epinine products (20 mgm. compressed in bottles of 25 and 100 and 1 per cent. spray solution in bottles of 10 c.c).

Steriliser Efficiency Test.—Samples and details are available from Carnegie Bros., Ltd., Essex Road, London, N.1, of an internal check (the Teller test) on the steam temperature, steam penetration, and efficiency of an autoclave and on the correctness of the operating technique. An announcement appears on another page.

80,000 Requests for Samples.—Chemical & Natural Products, Ltd., Wimbledon Factory Estate, London, S.W.19, announce that a sample scheme for English Rose lipsticks organised in co-operation with "Woman's Illustrated" brought in 80,000 replies. Every reply has been followed up by the company's sales department.

Floral Bouquets.—Chas. Zimmermann & Co., Ltd., manufacture at their headquarters, Dega Works, Walmgate Road, Perivale, Middlesex, the Dega series of blended drugs and essential oils. New facilities available at the premises are enabling the company to carry out long-delayed plans to expand their manufacturing and sales organisations.

Penicillin During the Holiday.—During the Christmas holiday urgent penicillin supplies may be obtained from Ripley Pharmacy, Ripley, Surrey, where all types and packs of penicillin, penicillin oil-wax injections, and procaine penicillin are available. Telephones: Day, Ripley 3111 at night and on Boxing Day, East Horsley 3351.

Novelty Showcard.—Stephen Matthews & Co.,Ltd., 19 Farringdon Street, London E.C.1, have produced for their product Curicones (a preparation for rheumatism) a novelty showcard and descriptive booklet. The showcard (12 in. x 8 in.) takes the form of a "weather house," with two figures, one of whom emerges on fine days and the other (the well-known human-barometer figure whom Messrs. Matthews have popularised in their advertisements) on wet days. The booklet is a treatise in simple language on rheumatic complaints.

Procaine Penicillin. — Allen & Hanburys, Ltd., Bethnal Green, London, E.2, are issuing rubber-capped 10-c.c. vials of an injection of procaine penicillin, A. & H., containing 300,000 units of penicillin and the equivalent of 120 mgm. procaine base in each c.c. They point out that procaine penicillin is a true salt, formed by combining equimolecular proportions of procaine and penicillin G. For intramuscular administration the vehicle is arachis oil, in which the drug is suspended, and 2 per cent. aluminium stearate is added as a dispersant to ensure uniform dosage and prolong the action.

Proprietaries Freed from Tax.—The following manufacturers have notified products exempt from tax under a new Order (see p. 804):—BURROUGHS WELLCOME & Co., London, N.W.1 (Wellcome brand injection of acetylcholine bromide, Ascaridole, homatropine alkaloid, hydrobromide, B.P., and hydrochloride; pilocarpine hydrochloride and nitrate, and physostigmine salicylate; Tabloid brand hypodermic physostigmine salicylate; black-disease vaccine and antiserum (veterinary); and contagious pustular dermatitis (Orf) vaccine (veterinary)). ELI LILLY & Co., LTD., Basingstoke (Amytal compound pulvules, ephedrine (plain) with Merthiolate in-

alant, ephedrine and Merthiolate jelly, phedrine and Merthiolate solution, I-edrin compound, Merthiolate cream, jelly, intment, ophthalmic ointment, solution, uppositories (vaginal), and tincture; Metyaine and Merthiolate jelly, ophthalmic intment, and suppositories; and Sulpho-*Merthiolate*). ROCHE PRODUCTS, LTD., Broadwater Road, Welwyn Garden City, Herts (acetylcholine ampoules, Roche). SHARP & DOHME, LTD., West Hill Laboraories, Hoddesdon, Herts (Cremosuxidine).

CHRISTMAS HOLIDAY CLOSINGS

The following details have been supplied about Christmas holiday closing arrangements and year-end stocktakings:—

Closing time, December 23 to Tuesday morning, December 28—BRITISH CHEMICALS & BIOLOGICALS, LTD., 43 Regent Street, Loughborough, Leics (emergency supplies from John Bell & Croyden, 50 Wigmore Street, London, W.1); THE BRITISH DRUG HOUSES, LTD., Graham Street, City Road, London, N.1; BRITISH SCHERING, LTD., 167 Great Portland Street, London, W.1 (emergency supplies from John Bell & Croyden); THE CROOKES LABORATORIES, LTD., Park Royal, London, N.W.10 (emergency supplies from John Bell & Croyden); GLAXO LABORATORIES, LTD., Greenford, Middlesex (skeleton staff for emergency orders, December 24); HERTS PHARMACEUTICALS, LTD., Bessemer Road, Welwyn Garden City, Herts; S. MAW, SON & SONS, LTD., Aldersgate House, Barnet, Herts; MAY & BAKER, LTD., Dagenham, Essex; PARKE, DAVIS & CO., Staines Road, Hounslow, Middlesex (skeleton staff available for emergency orders from 9 a.m. to noon, December 24); PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex (closed from noon, December 23. Emergency supplies from John Bell & Croyden); THORNTON & ROSS, LTD., Linthwaite, Huddersfield; WRIGHT, LAYMAN & UMNEY, LTD., 44 Southwark Street, London, S.E.1.

Closing time, December 24, to Tuesday morning, December 28.—ALLEN & HANBURY, LTD., Bethnal Green, London, E.2 (closing from noon December 24. Emergency supplies from 7 Vere Street, London, W.1); RICHARD DANIEL & SON, LTD., Derby and Ashton-under-Lyne; PAINES & BYRNE, LTD., Pabyrn Laboratories, Bilton Road, Greenford, Middlesex (emergency supplies from John Bell & Croyden); H. R. NAPP, LTD., 3 Clements Inn, London, W.C.2 (emergency supplies from John Bell & Croyden or R. Woolby Brooke, 38 Gloucester Road, London, S.W.7); SHARP & DOHME, LTD., West Hill Laboratories, Hoddesdon, Herts (emergency supplies from John Bell & Croyden); SOUTHON LABORATORIES, LTD., 88 Upper Richmond Road, London, S.W.15 (closed from 1 p.m., December 24. Emergency supplies from John Bell & Croyden).

Closing-time, December 24, to Wednesday morning, December 29.—BURROUGHS WELLCOME & CO., 183 Euston Road, London, N.W.1 (closed from 4 p.m., December 24. Skeleton staff for emergency orders, 9 a.m. to 12.30 p.m., December 28); CIBA LABORATORIES, LTD., Horsham, Sussex; HIRST, BROOKE & HIRST, LTD., Sheepscar Works, Leeds; KAYLENE, LTD., Waterloo Road London, N.W.2.

Special Arrangements.—BAYER PRODUCTS, LTD., Africa House, Kingsway, London, W.C.2 (closed Wednesday afternoon, December 22, and from 2 p.m., December 24 until usual opening time December 28. Emergency supplies from John Bell & Croyden); J. H. HAYWOOD, LTD., Warser Gate, Nottingham (closed from Friday evening, December 24 until normal opening-time, January 1, 1949, for holidays and annual stocktaking); THOMAS MORSON & SON, LTD. (from Thursday evening, December 23, until Monday morning, January 3, 1949, for holidays and annual stocktaking).

Proprietary Articles Trade Association

Additions to Protected List (Part 1).—*Allen & Hanburys, Ltd.*, D.F.P. injection solution, 0.1 per cent., 2-c.c. ampoules, box of six, 48s. doz., tax 33⅓ per cent., inclusive retail price 7s. 4d.; box of twelve, 90s. doz., tax 33⅓ per cent., i.r.p. 13s. 9d. D.F.P. eye-drops, 0.05 per cent., bottles of ½-oz., 54s. doz., tax 33⅓ per cent., i.r.p. 8s. 3d.; 0.1 per cent., bottles of ½-oz., 54s. doz., tax 33⅓ per cent., i.r.p. 8s. 3d.

H. R. Napp, Ltd., Abecedin emulsion, 8-oz. Winchester, 78s. 9d. each, 105s. (exempt).

A. Wander, Ltd., Alocol cream, 40-oz., 11s. 6d. each, tax 33⅓ per cent., i.r.p. 19s. 2d.; 80-oz., 20s. 10d. each, tax 33⅓ per cent., i.r.p. 34s. 8d.

Alterations to List (Part 2).—*Drugs, Ltd.* (distributors, *Scott & Bowne, Ltd.*), Prices in Eire since November 22: Pure Silvikrin, 54s. doz., 6s. Silvikrin hair-tonic lotion, 16s. 6d. doz., 1s. 10d.; 29s. 3d. doz., 3s. 3d.; hair-cream, 22s. 6d. doz., 2s. 6d.; liquid brilliantine, 22s. 6d. doz., 2s. 6d.; solid brilliantine, 22s. 6d. doz., 2s. 6d.; Kemt, complete, 47s. 3d. doz., 5s. 3d.; refill, 27s. doz., 3s. Distributors in Eire: Harvey & Co. (Dublin) Ltd.

Wright, Layman & Umney, Ltd., Wright's Crinagen, 2s. 8½d., 24s. doz., tax 33⅓ per cent., i.r.p. 3s. 4½d.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

COLONEL CLIFTON BROWN asked the Minister of Food on December 6 how many people were employed by his Department in delivering cards asking people to go to chemists to be weighed, and what pay and allowances they received.

DR. EDITH SUMMERSKILL: No one from my Department is so employed. A body-weight survey has been carried out by an agency on behalf of the Ministry since 1943 at quarterly intervals. The cost in a full year is estimated at £7,000. Co-operation in the survey is entirely voluntary.

Purchase Tax on Veterinary Supplies

MR. D. A. PRICE-WHITE asked the Chancellor of the Exchequer on December 7 the present average rate of purchase tax on veterinary supplies, and whether he would consider reducing or abolishing such tax as a contribution to the home production of foodstuffs. SIR STAFFORD CRIPPS replied that the average rate could not be estimated, but the bulk of veterinary supplies were chargeable. Substantial concessions had been made in the last Budget that affected both human beings and animals; medical and veterinary supplies must obviously, he said, keep in step as regards taxation.

Health Centres

DR. L. COMYNS asked the Minister of Health on December 9 how many applications for permission to build health centres had been received from local authorities; how many such schemes in the London area had been approved as new structures and as adaptations of existing buildings, and whether he was satisfied that enough centres were being constructed.

MR. ANEURIN BEVAN: I have proposals for two quite new centres in London and have approved one. Discussions are going on in about twenty other cases. So far, no adaptations of old buildings have been approved. A number of existing dental or medical clinics have been maintained under the new Act. The Minister said that he was certainly not satisfied, and that progress on the schemes was governed by the building situation.

D.D. AND RAW OPIUM REGULATIONS

THE Home Secretary has issued the Dangerous Drugs Regulations, 1948 (S.I., 1948, No. 2653) which come into operation on January 1, 1949. Their principal effect is to extend the classes of persons in hospitals and institutions authorised, as dispensers, to be in possession of and to supply dangerous drugs to the following:

Persons employed or engaged in dispensing medicines at a hospital, infirmary, health centre or dispensary wholly or mainly maintained by a public authority out of public funds or by a charity or by voluntary subscriptions who are (i) registered pharmacists; (ii) persons who hold the certificate of the Society of Apothecaries of London as assistant to an apothecary and who were employed or engaged on December 31, 1948; (iii) dispensers duly qualified in accordance with regulations for the Royal Army Medical Corps, and who were employed or engaged on December 31; (iv) persons duly registered under the Pharmacy and Poisons Act (Northern Ireland), 1925, as pharmaceutical chemists, chemists and druggists, or druggists and who were employed or engaged on December 31; or (v) matrons or acting matrons of hospitals or infirmaries in which no person of any of the foregoing descriptions is employed or engaged. (A matron or acting matron of a hospital or infirmary is not authorised to procure any drug or preparation otherwise than on an order signed by a duly qualified medical practitioner employed in the hospital or infirmary.)

The regulations also require that any drug or preparation in the actual custody of any authorised person must, except when the practice of his employment requires otherwise, be kept in a locked receptacle which can be opened only by him or by some other authorised person. Other effects of the regulations are to require separate sections of a Dangerous Drug register to be kept for pethidine and its preparations and for amidone and its preparations. The reference to health prescriptions in the original regulations concerning the genuineness of D.D.A. prescriptions is deleted so that Dangerous Drugs may not be supplied on a prescription unless either the dispenser is acquainted with the signature of the person by whom it purports to have been given and has no reason to suspect that it is not genuine, or he has taken reasonably sufficient steps to satisfy himself that it is genuine.

The Raw Opium Regulations, 1948 (S.I., 1948, No. 2654), also come into operation on January 1, 1949. Their principal effect is to introduce for raw opium and other substances to which the Raw Opium Regulations, 1937, apply, a storage requirement similar to that given above.

SULPHONAMIDE PATENT APPEAL DISMISSED

THE considered judgment of the Court of Appeal in the appeal by May & Baker, Ltd., and Ciba, Ltd., against a revocation by Mr. Justice Jenkins of their patent covering the production of new sulphonamide drugs (see *C. & D.*, January 7, p. 173), was given on December 10. The order for revocation was made on the petition of Boots Pure Drug Co., Ltd., who alleged that the claims made for the invention revealed no new manner of manufacture, and that the patent was invalid on various technical grounds, including inutility and lack of subject-matter.

The patent specification claimed manufacture of para-amino-benzene-sulphonamido-thiazoles by any known process from large classes of chemical substances. It included a large number of compounds, but described two only (sulphathiazole and sulphamethyl-thiazole), with a particular therapeutic value in the treatment of streptococcal infections. The appellants, while not admitting that the other compounds lacked such value, wished to confine the claims to the two substances mentioned. For that purpose they asked leave to amend the specification. The petitioners had successfully opposed the application, Mr. Justice Jenkins holding that the specification so amended would claim a substantially different invention, and the appeal was unanimously dismissed, with costs.

What the Court Had to Decide

The Master of the Rolls (Lord Greene), in his judgment, stated that the only matter with which the court had now to deal was the application for leave to amend the specification. He said it was accepted by the appellants that the patent was obtained by false representation and suggestion in regard to the therapeutic value of the derivatives. So soon as that was challenged the appellants abandoned any attempt to support the specification. The danger of making such assertions in regard to the unknown action of new drugs, possibly of a highly toxic nature, was obvious. In his opinion, the judge had come to a correct conclusion both in the appeal and on the application.

The original specification described and claimed an invention of the broadest possible character, namely, "The manufacture of new benzene-sulphonamido derivatives," and of these there were at least 97 millions. The invention claimed amounted to the discovery of a vast range of new substances with important therapeutic value, and that without taking into consideration other possible permutations and combinations; whereas the proposed amendment would confine the patent to two compounds which it was admitted had a chemotherapeutic value.

That, in his lordship's judgment, would amount to a claim for an invention substantially different from that claimed in the unamended specification. In fact, the supposed discovery was not a discovery at all. It was based on an improved hypothesis in relation to characteristics existing in a vast genus of compounds. The Master of the Rolls agreed with the findings of Mr. Justice Jenkins, and Lords Justices Somervell and Evershed concurred.

The appeal was dismissed, with costs. Leave to appeal to the House of Lords was granted; and order for revocation was directed to lie in the office until March 1.

SKIN DISINFECTION

EXPERIMENTS by Gardner ("Lancet," November 13, p. 760) have confirmed his previous finding that 2 per cent. iodine in 76 per cent. alcohol is a rapid method of disinfecting areas of skin for surgical incisions or punctures. The skin need not (and should not) be previously washed. Disinfection of flat areas of unwashed clean skin is complete within half a minute. Tests with other substances showed that Zephiran (30 per cent. in 70 per cent. ethyl alcohol) and cetrimide (same dilution) gave satisfactory disinfection in 30-45 seconds. Substances found slower in action or imperfect in disinfecting power in the test conditions included diethyl ether, mercuric chloride (1 in 1,000), Merthiolate tincture and solution, Chloros (diluted in alcohol to give about 3 per cent. chlorine content), Chloros in aqueous solution, Dettol in 70 per cent. alcohol, petrol, acetone, propyl alcohol (50 per cent. solution less effective than 70 per cent. alcohol, though "it has quite a strong action, and if applied for 3-5 minutes would probably disinfect well"), and finally brilliant green and crystal violet (1 per cent. of each in 75 per cent. methylated spirit). The author gives his view that, in preparing skin for operations, there is little justification for using disinfectants that are slow-acting, as exemplified by the flavines.

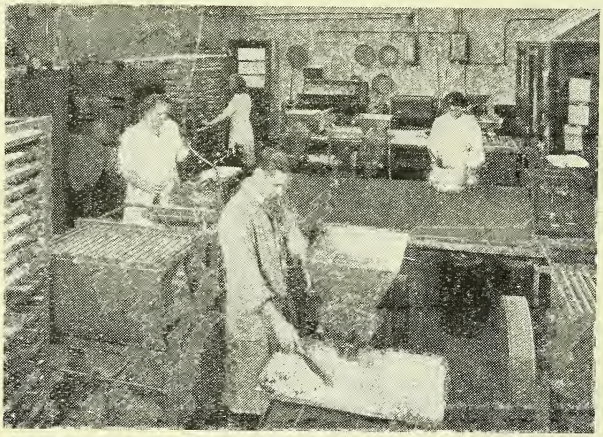
THOMAS THOMPSON, 1798, TO EDWIN THOMPSON, 1948

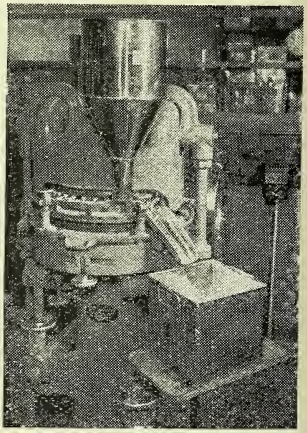
150 Years of the Business of Thompson & Capper Wholesale, Ltd.

THOMAS Thompson, who started in business on his own as a homœopathic chemist in Liverpool in 1798, came of a family whose history is traced back to another Thomas, who lived at Great Strickland, in Westmorland. The date of birth of the first Thomas is unknown, but he had a son William who was christened in 1642. A great-great-grandson, also Thomas, a banker in Appleby, Westmorland, born in 1743, was the first of the family to become a Quaker. It was the banker's son who, on a visit by coach to London as a young man, met anther Quaker, William Allen, who suggested that young Thomas should go to him as an apprentice. So Thomas Thompson went to Plough Court, Lombard Street, London, the original pharmacy of Allen & Hanburys, Ltd.

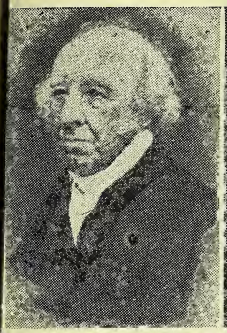
While living with Mr. and Mrs. Allen in London he formed a close friendship with a Quaker family named Phillips. Three of the brothers—William, Robert and James, became famous scientists in their day and Fellows of the Royal Society. They had a sister Frances, whom Thomas Thompson married in 1807, nine years after he had set up in business. A son George, born 1811, joined his father in business, and in 1832 the firm became Thomas Thompson & Son. A younger son, Silvanus, was the father of Professor Silvanus Phillips Thompson, Quaker, physicist, and Fellow of the Royal Society. In 1839 George Thompson married Eliza Cooke, daughter of Isaac Cooke, a Liverpool cotton broker and one of the founders and first directors of the Bank of Liverpool (now Martins Bank, Ltd.).

In the year 1843 a partner, S. J. Capper, joined the firm, the style of which became Thompson & Capper. In the same year a



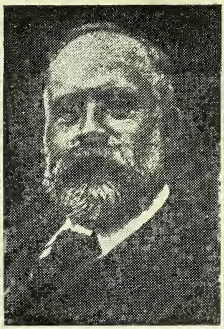


Material for tableting is passed twice through an oscillating granulator—once before and once after drying in a hot air oven. Right: When once adjusted for weight and compression, a two-stage multipunch tablet-compressing machine, as illustrated, produces 50-70,000 tablets hourly with little attention from operators.

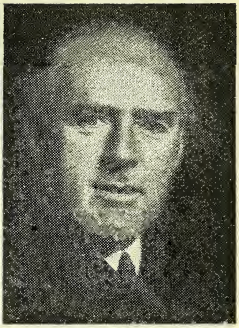


Thomas Thompson, 1776-1861

George Thompson, 1811-69



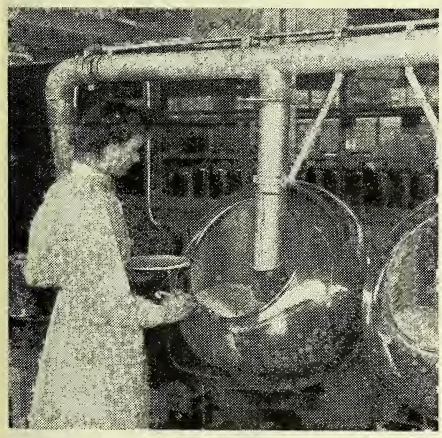
Isaac Cooke Thompson, 1843-1903



Edwin Thompson, 1881-

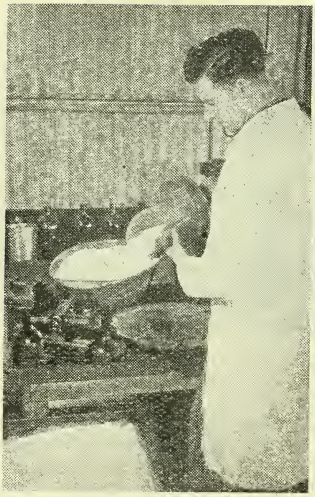
son, Isaac Cooke Thompson, was born to George Thompson. Apprenticed on his fifteenth birthday, Isaac Cooke Thompson pledged himself "not to play at cards, dice, billards, tables, or any unlawful games," nor to "haunt taverns, playhouses, or other places of entertainment." Subsequently he was to become well known as a zoologist; in association with Professor W. A. (later Sir William) Herdman, he founded the Liverpool Marine Biology Committee and the Port Erin Biological Station.

Isaac's son Edwin, born 1881, left Sedbergh School in 1898 to become an apprentice. In 1903 I. C. Thompson died, a few weeks after Edwin Thompson had passed the Chemist and Druggist Qualifying examination. Being of old Quaker stock, Edwin Thompson was born a Quaker, but during the Boer war, because he joined the Volunteers, the Quakers struck his name off the register. The Society of Friends did not, however, take such drastic steps during the Great War and after. The business at that date comprised ten retail branches in various towns in Lancashire and Yorkshire. In 1911 Edwin was invited with three others to visit the headquarters of the United Drug Co., Boston, Massachusetts, U.S.A., to advise on the desirability of forming a company in England to market Rexall products. He was made a director of the American and later of the British companies. Edwin Thompson's interest, however, was in manufacture, and he started a factory at Manesty Buildings, Liverpool. The firm became a limited company in 1912, with Edwin Thompson as governing director. In 1928 all the retail branches were sold to Taylors, Ltd., Leeds, and the purely manufacturing business that remained was reconstructed under the title Thompson & Capper Wholesale, Ltd.



Sugar-coated tablets are finished in rotating copper drums fed with hot air. The motion of the drum sweeps them upwards against the pressure of gravity.

Being also interested in engineering Edwin Thompson visited Philadelphia in 1906, and secured the sole agency for the F. J. Stokes Machine Co. The agency flourished, and eventually arrangements were made with Messrs. Stokes under which the machines were made in the Liverpool factory and called Manesty. In order to separate the manufacture of pharmaceutical products from the construction of machinery a new company, Manesty Machines, Ltd., was formed. In 1937 a seven-acre site was purchased at Speke, Liverpool, seven miles from the city centre, and a new factory was built housing both Thompson & Capper Wholesale, Ltd., and Manesty



Mothaks in the making: Left, weighing out the principal ingredient for blending with aniline colour, granulation and tableting. Right, through the pierced tablets a machine threads the cord by which Mothaks hang when in use by the purchaser.

Machines, Ltd. The factory was the subject of an illustrated article in these columns (see *C. & D.*, 1937.II.411). Both companies made rapid progress, and Mr. Edwin Thompson has recently sold Manesty Machines, Ltd., to John Holroyd & Co., Ltd., Milnrow, Rochdale. Messrs. Holroyd have erected a new building at Speke into which the factory is removing, leaving to Thompson & Capper Wholesale Ltd., the whole of the 1937 building.

The company specialise in tablet-making, not only of medicines but also of other materials such as foodstuffs, preforming plastics, etc. They also manufacture proprietary preparations for other firms. It is nearly twenty years since they first put on the market Mothaks, and sales of this effective and popular anti-moth preparation have now reached fifty million a year. Q.A. quick-acting aspirin tablets have also a very large sale. Other well-known products of the company are Quinphos tonic, Cornol corn remedy, Varicones, the Goldon Arrow series of preparations, and many others.

During the war the company undertook many large contracts, often at short notice, for making tablets of tea; salt (to counteract the loss of body salts by perspiration),

In the packing and dispatch department the tablets are counted into their containers, labelled and boxed.

the American and British armies; tabs for prisoner-of-war parcels sent through e Red Cross; and urgent experimental ork in connection with the war effort.

Edwin Thompson, J.P., governing director of the company, has many outside interests and has taken a prominent art in the public life of the City Liverpool. He is an Alderman of e City, and was Lord Mayor, 1930-31. e held the important office of High eriff of Lancashire, 1944, and represents e Chancellor of the Duchy of Lancaster n the Court of Liverpool University, of which he is a Council member. He was president of the Society of Chemical Industry, 1934-35, and of the British Waterworks Association, 1931-32. He is a Fellow of the Chemical Society, vice-chairman of the Liverpool Repertory Theatre, a governor of Blue Coat School, Liverpool, and a member of the Pilgrims Society.

The general manager of the business is Mr. J. N. Bennett, Ph.C. The secretary is Mr. D. Y. Turner, who has been with the firm since 1911; and Mr. A. Little (with the firm since 1915) is head of the tablet-making department.

ULSTER CHEMISTS' ASSOCIATION

T a meeting of the executive of the Ulster hemists' Association held in Belfast on ecember 7, Miss C. E. Culbert was elected resident (see p. 787). The meeting was llowed by a social evening during which Iiss Culbert received many good wishes. IR. JAMES MCDOWELL expressed pleasure t the fact that Mr. Carroll Culbert was resent to see his daughter in the chair. He ecalled that Mr. Culbert had helped to reganise the Association and for a long eriod had been one of its secretaries. He ad exerted a great influence on pharmaeutical affairs. MR. CULBERT then gave ome reminiscences of the early years of the ssociation. Good wishes to Miss Culbert vere also expressed by MESSRS. W. J. RANKIN, (treasurer) A. MAWHINNEY (for the ssociates' Section) and J. A. MOONAN. In ier reply MISS CULBERT said thanks were lue not only on her behalf but on behalf of all women pharmacists. She was confident of the full support of all her colleagues. A vote of thanks was moved by MR. JOHN MCGREGOR and the following contributed to the evening's programme: Messrs. J. Wellwood, E. A. Richey and A. Steede.

Also elected at the meeting of the executive at which Mr. J. C. Acheson (retiring president) was in the chair were: *Vice-president,* Mr. J. Caldwell; *Treasurer,* Mr. W. J. Rankin; *Secretaries,* Messrs. E. A. Richey and C. A. Quinn; *Auditors,* Messrs. Joseph Wellwood and J. A. McRoberts; *Representatives on the Joint Council,* the president, vice-president, and Messrs. J. McGregor and E. A. Richey; *Representatives to attend meetings of Associates' Committee* (by invitation), Messrs. P. R. W. Shinner and R. A. McEwan; *Emergency Committee,* the president, vice-president, treasurer, secretaries and Messrs. Acheson, Richey and R. Gibson; *Representatives on Northern Ireland C.F. Committee,* the president vice-president, and Messrs. Acheson and Quinn; *Representative on C.F. Council,* the president; *Belfast Chamber of Trade,* Messrs. Acheson and Quinn; *Ulster Tourist Development Association,* Mr. Walter C. Tate. A vote of sympathy with the relatives of the late Mr. T. J. Moffatt, who died on November 28, was passed. Mr. H. F. Anderson, Newtownards, was welcomed as a new member of the executive. THE SECRETARY (Miss A. E. Strachan) read a letter from the Ministry of Home Affairs pointing out that penicillin and its preparations should be supplied to the public only on medical or veterinary prescriptions and that the Ministry's pharmacy inspector has been instructed to pay particular attention to the sales of penicillin and its preparations. It was reported that representations had been made to the Ministry of Food for increased allocations of sugar for dispensing purposes. The Ministry had replied to the effect that the matter was being considered by the headquarters of the department in London.

The following were elected as members: —Messrs. R. J. McKeag, Ph.C., Coleraine and B. K. O'Reilly, Newry (successor to the late Mr. F. S. McNamee). The following, who had been approved at a previous meeting of the Associates' Section, were elected to associate membership:—*Assistants,* Miss O. Irwin, and Messrs. D. O'Neill and E. McCann; *Apprentices,* the Misses V. P. Colhoun, A. R. Corry, M. Cunningham and B. McCallen, and Messrs. L. McAdoo, A. Murphy, P. J. Quail and L. Wolfson.

Sir Jesse Boot Lecture. — The twenty-first Sir Jesse Boot Foundation Lecture, delivered in Nottingham in May by Professor Linus Pauling on the subject "Molecular Architecture and the Processes of Life," has been published as a booklet. Copies may be obtained from the Librarian, The University, Nottingham, price 1s. 6d.

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VOL. CL DECEMBER 18, 1948 No. 3591

Diary Time

FIRST copies of THE CHEMIST AND DRUGGIST Diary and Year Book, 1949, are already in the hands of subscribers. Within a few days the complete edition will have been sent out, and every user, at least in the home territory, will be in a position, if he wishes to, to make his New Year resolutions the first diary entry under the date of January 1, 1949—an opportunity he may, unfortunately, not always have had in the difficult war years and those immediately following.

To pharmacists in Great Britain and Northern Ireland the new volume will be especially welcome for the information it gives on a factor vitally affecting the practice of their profession today but which did not exist when the 1948 Year Book made its début—namely, the National Health Service. Pharmacists' interests in that Service are catered for in a summarised presentation of the Regulations under the National Health Service Act, with lists of permitted appliances and reagents and of the drugs allowed to be prescribed by dental practitioners, and in a list of the Statutory Instruments that implement the Act, with their numbers to enable copies to be bought if detailed reference becomes necessary or desirable. The principal committees and councils set up under N.H.S. are named and their functions are outlined. What, understandably, may be the prime concern of many pharmacist-contractors is their remuneration under the Service. Some of the details of the machinery of payment are still in course of construction—even some of the blueprints are still being sent back to the draughtsmen for revision or modification. In the circumstances, it has not been possible to give a complete survey of this important aspect, but such arrangements as were fully agreed at the time the Diary went to press are clearly set out for speedy reference at any time. Another useful new feature is a list of the secretaries of Pharmaceutical Committees.

Revisions

Revisions to bring some of the regular features up to date have been exceptionally heavy this year, and some of the apparently unchanged features are worthy of closer scrutiny. It is our custom upon publication of the Year Book to draw attention to any entries that have been rendered obsolete by events since the text was prepared for press. This year they are few. The most important results from an announcement (p. 804 of this issue) of changes in the list of tax-free drugs. Northern Ireland pharmacists should note that the annual election of the officers of their Society brought changes in the holders of office as president (now Mr. H. H. Cowzer), vice-president (now Mr. P. R. W. Shinner) and treasurer (now Mr. H. F. Moore). The name of Mr. K. H. Wright now replaces that of Mr. Arch. Wilson as secretary of the Brighton and Hove Association of Pharmacy. Changed addresses of advertisers, and any printers' errors or other inaccuracies that may come to light, will be notified later—after the persons or firms affected have had a chance to bring them to our notice.

As usual, the Trade Directory and Buyers' Guide are the most comprehensive of their kind, and indispensable to retailers, wholesalers and manufacturers alike, while the advertisement pages — colourful and varied as ever—reflect many recent changes in the fields of medicine and chemistry.

We present the eighty-first Diary with considerable pride but with one regret—that paper restrictions still severely limit the number of copies available. Established subscribers are included in the mailing list and can be sure of not being overlooked. For the rest, there are likely to be some disappointments, which we shall feel no less keenly than new subscribers.

Contaminated Drugs

EVERY week quantities of drugs and other commodities are detained by the U.S. Food and Drug Administration at New York and other United States ports on the grounds that they are infested by insects, that they are wormy or mouldy, or that in some other way do not come up to the rigid requirements of the U.S. Food, Drug and Cosmetic Act (see *C. & D.*, 1947.II. 172). In some instances (for example, when the drugs are contaminated with animal excreta), the F.D.A. condemns the consignment as "filth."

There is some evidence that, though many shippers have yet to learn the lesson (for the same named drugs appear week after week in the list of detained imports), others have mended their ways. Or have they? Perhaps they have merely diverted the inferior material elsewhere, for several times during the past year consignments of contaminated drugs have reached the United Kingdom. Is it possible that British importers have taken the drugs rejected by America? There has also been evidence that botanical drugs imported into Britain have been badly graded during the past year, and parcels have often been of poor quality compared with pre-war standards. Has Britain taken the f.a.q. material while the dollar has captured the best? The new pharmacopœial requirements controlling contamination in crude drugs, to which Dr. Wallis drew attention in his recent address to the Pharmaceutical Society (see p. 799), is long overdue. Whereas, formerly, contamination from insects and rodents could only be regulated by requirements relating to "foreign organic matter," the new Pharmacopœia lays down that "vegetable drugs are required to be free from insects and other animal matter, and from animal excreta." Outside of the drugs of the B.P., 1948, however, there is no such protection against contamination. If Britain is to maintain its position as the drug clearing market for the world, importers must insist that all drugs they handle are free from contamination and sound on arrival. A price allowance to the importer by the shipper does not fully compensate the consumer for inferior material.

Pharmaceutical Congress in India

AN Indian Pharmaceutical Congress, the first of its kind ever organised in India, is being held at the School of Tropical Medicine, Calcutta, on December 23 and 24. One of the organising secretaries (Mr. S. N. Banerjee, B.Sc.) outlines the purpose of the Congress as being "to serve as a close nexus between the foreign and Indian pharmaceutical scientists," and it is worthy of note that Messrs. L. S. Cruickshank, M.P.S. (May & Baker (India), Ltd.), J. Hanson, M.P.S. (Evans Medical Supplies (India), Ltd.), and Leslie Shaw, M.P.S. (Imperial Chemical Industries (India), Ltd.), are serving with five distinguished Indian scientists on its reception committee. The general secretary of the Congress (Mr. P. K. Sanyal, Ph.D., Ph.C.) is well known to pharmacists in this country as co-author with Dr. T. E. Wallis of papers on Indian valerians.

Titles of the science papers to be read at Calcutta have not yet reached us, but the provisional programme indicates that there will be symposia on three subjects all of first-class importance to the Dominion at the present time: "Standardisation and Marketing of Crude Vegetable Drugs," "The Rôle of Pharmacists in the Defence Forces of the Country," and "Possibilities of Manufacture of Penicillin and Streptomycin in India." Success and long life to the Congress!

Brighton Balance-sheet

WHILE there was general agreement among those who attended the British Pharmaceutical Conference at Brighton that the arrangements made by the local committee left nothing to be desired, there were some gloomy shakings of the head. "Entertainment on such a scale," it was said, "is all very well, but wait till the balance-sheet comes out." Now the balance-sheet has been published (see p. 781) and it reveals, not the heavy deficit that was dismally forecast, but a credit balance large enough to permit partial refunds to the pharmaceutical companies that made contributions towards the expenses. Conference members from the rest of the country will join us in congratulating the members of local organising committee.

CRUDE DRUGS OF THE B.P., 1948

A Lecture by Mr. T. E. Wallis, D.Sc., F.L.S., F.R.I.C., Ph.C.

THE sixth lecture in the series on the new Pharmacopœia organised by the Pharmaceutical Society was given on December 2 by Dr. T. E. Wallis (curator of the museum of the Pharmaceutical Society).

Scientific knowledge about drug materials of natural occurrence has advanced with rapid strides, and the monographs of the British Pharmacopœia, 1948, in keeping pace with the developments, have changed markedly in content and bulk, he said.

Thirteen crude drugs included in the British Pharmacopœia, 1932, are now omitted. Asafetida, buchu, copaiba, jalap, linseed and lobelia are removed as being redundant or ineffective remedies; cinchona has been replaced by its principles quinine and quinidine; crushed linseed has given place to heavy kaolin for use in poultices; serpentary and tamarind are excluded because the galenicals (compound tincture of cinchona and confection of senna) are no longer official. Indian squill and Indian valerian are left out because European supplies are again available and are more constant in quality.

According to the first paragraph under "General Notices" (p.1) 158 crude drugs must be regarded as official, for the word "official" applies to any title, substance, preparation, method or statement included in the General Notices, Monographs and Appendices. Official crude drugs thus include those described in monographs and in the appendices, those named incidentally, and those composed of bacteria.

Descriptions of macroscopical and microscopical characters of vegetable drugs are given in greater detail than formerly, and chemical tests for identity and purity are included in suitable cases. The method of determination of volatile oil content, described in Appendix XI, H, is largely due to the efforts of Messrs. Cocking and Middleton, Meek and Salvin, Short and the late A. I. Robinson.

Revision of the botanical nomenclature in accordance with the International Rules of Botanical Nomenclature, has meant that several familiar names have disappeared—e.g., *Eugenia aromatica* (Linn.) Baill. becomes *Eugenia Caryophyllus* (Spreng.) Sprague. If the names of two authors follow the name of the plant, with one enclosed in brackets, the last author—e.g., Sprague—has transferred the plant from one genus, *viz.*:—Myrtus, to another genus, *viz.*:—*Eugenia,* while the name in brackets indicates the author, *viz.*:—Sprengel, who had given the specific epithet *Caryophyllus,* which has been retained by Sprague. The capital initial of *Caryophyllus* indicates that this was once a generic name, used by Linnæus—viz.:—*Caryophyllus aromaticus* Linn.

Limit of Foreign Matter

On p. 10 of "General Notices" a new requirement concerning badly stored drugs reads "Vegetable drugs are required to be free from insects and other animal matter and from animal excreta." As a single drug-room beetle, *Stegobium paniceum* Linn., weighs on an average 0.75 mgm. 2 per cent. of "foreign organic matter" (the former limit) in the form of drug-room beetles means 756 beetles in each ounce of drug. The necessity for the new requirement is therefore evident.

Appendix XIV gives definite information about the meaning of the term "foreign organic matter," and also an indication of the way in which it is to be determined. For the determination of foreign organic matter in powders, the method depends on the use of lycopodium. As 1 mgm. of lycopodium contains 94,000 spores, the weight of any counted number of spores seen in the field of the microscope can be immediately obtained. If, therefore, a powder is mixed with a definite proportion of lycopodium the weight of the powder seen in the microscope can be determined by counting the spores and multiplying their weight by the known factor. A mean standard value for any powdered vegetable material can now be found by counting the number of some easily recognised structure in the weight of powder seen in the microscope in admixture with a known proportion of lycopodium. In this way it is found, for example, that 1 mgm. of ginger contains 286,000 starch grains. If exhausted ginger has been used to adulterate a powdered drug, the number of ginger starch grains per mgm. of the adulterated drug can now be counted and (by proportion) the amount of ginger present calculated.

In the 1948 Pharmacopœia there are at least twelve new crude drugs. There are two new kinds of starch—wheat (best for glycerinum amyli) and potato (as a disintegrating agent in tablets). Ipecacuanha

now includes the root of *Cephaelis acuminata* Karsten, which was formerly excluded by the official alkaloidal requirements. Under the heading of vaccines there are included an additional eight bacteria.

The monograph for "Glycyrrhiza" is a good example of the B.P. treatment of an organised drug. It includes the definition; description (giving in separate paragraphs the macroscopical and microscopical characters); and standards for ash, the acid-insoluble ash, and water-soluble extractive being set out separately. A submonograph is given on the powder. The ipecacuanha monograph, a second example, lays down a minimum requirement for alkaloidal content. The monograph on rhubarb illustrates three other features: the commercial names under which the official varieties are marketed; the substitution of an acid-insoluble ash for a total ash value (total ash being useless as a means of excluding adherent earthy matter); and the official use for the first time of ultra-violet light for the detection of adulteration (in rhapontic rhubarb).

The type of monograph used for unorganised crude drugs (exemplified by that for aloes) is constructed on a plan similar to that for chemical substances, followed by submonograph (on powdered aloes).

Criticisms

Few errors or omissions are to be found in the Pharmacopœia. Among the blemishes, however, is some inconsistency about the inclusion of a statement of minimum percentage of active constituent required to be present in the drug. For the alkaloidal and resinous crude drugs, the minimum requirement for alkaloid or resin is stated in the definition. For other drugs, such as cascara, gentian, liquorice, quassia, senna leaf and pod, the minimum water-soluble extract is included under a special heading corresponding to Assay in other monographs. Since all these requirements serve the same purposes, it would seem reasonable to treat the requirements in the same way for all drugs. It is suggested that the standards should be removed from the definition and included with the method of assay after the description.

Under creta, the description and tests do nothing to distinguish native (amorphous) calcium carbonate from other kinds obtained by precipitation or otherwise. The morphology of the skeletons of the microscopical animals are the most essential feature. Under the monographs for bacterial vaccines, no attempt is made to describe characters, either morphological or staining, of the bacteria present. No attempt is made in the Pharmacopœia to describe the official thyroid although it has definite and characteristic features by which it can be identified in the form of powder.

Crude Drugs and Storage

The crude drugs to which storage conditions are attached include seven added vegetable drugs and seven additional vacines; the fifteen volatile oils and three fixed oils remain as previously. The usual wording is "should be" and not "are to be" stored, and how far this leaves it open to the pharmacist to ignore the instruction is a matter for discussion. According to the "General Notices" (page 2), however, the conditions of storage form part of the standard. Storage conditions are so important for crude drugs that they might well be attached to a still larger number, so as to include starch, colophony, gelatin, dried orange peel, dried lemon peel, myrrh, wild cherry bark, rhubarb, squill, tragacanth, valerian and ginger.

TRADE OF GERMAN BIZONE

The U.S. Department of Commerce has published statistics ("Foreign Commerce Weekly," November 15) of imports and exports of the Anglo-American zone of Germany for June and for the first half of 1948. They are given in the following table (values in $ U.S.):—

Item	June 1948	First 6 months of 1948
Imports		
Inorganic medicinal chemicals	47,550.00	47,587.56
Organic medicinal chemicals...	15,830.56	25,918.31
Prescription pharmaceuticals...	14,979.17	14,979.17
Proprietary remedies	2,268.00	2,268.00
Miscellaneous drugs and medicines	—	248,816.44
Total	237,838.64	874,914.18
Exports		
Biological products	2,565.00	8,336.49
Drugs of animal origin, synthetic equivalents	—	7,050.29
Medicinal chemicals, inorganic	5,026.15	43.346.40
Medicinal chemicals, organic	705.56	24,537.56
Prescription pharmaceuticals...	73.929.55	442,977.95
Proprietary remedies, non-prescription pharmaceuticals ...	—	3,148.65
Drugs and medicines, not elsewhere classified.... ...	42,152.20	75,854.70
Total	124,378.46	605,252.04

PRICE CONTROL AND THE CHEMIST

At a meeting of the Leeds Branch of the National Pharmaceutical Union on November 19 Mr. H. E. Chapman (secretary, Proprietary Articles Trade Association) spoke on price controls and price maintenance in pharmacy.

Since 1939, he said, controls and restrictions affecting the conduct of the retail chemist's business had been many and varied. Most of them were necessary and desirable so long as the over-riding consideration was furtherance of the war effort. Retention of many restrictions was justified for the present by the need to maintain orderly distribution of available resources. Goods still controlled by special maximum price orders included saccharin, soaps and soap substitutes.

Principle of Prices of Goods Act

To prevent undue increases in price, or any repetition of the "profiteering" abuses that prevailed during and after the 1914-18 war, the Price of Goods Act had been passed in September 1939. Its underlying principle was to ensure that no trader (manufacturer, wholesaler or retailer) made a larger sum of money as net profit per article (after allowing for any increased overhead and manufacturing costs) than he was making in August 1939. Drugs, medicines, toilet articles, infants' and invalids' foods, and most of the sundries usually retailed by chemists had been included in the Schedule of articles to which the provisions of the Prices of Goods Act applied. Application of the Act to proprietary articles might have acted harshly on manufacturers and retail chemists had not the P.A.T.A. been able to negotiate an agreement with the Central Price Regulation Committee. By this, in return for an assurance that all price increases that manufacturers felt compelled to make would be calculated in accordance with the terms of the Act, the P.A.T.A. List would be recognised as a list of "permitted prices," not to be challenged by local price regulation committees if complaints about them were lodged by a member of the public. The arrangement had worked well. A more recent form of price control affected toilet and perfumery preparations and requisites removed from control under the Prices of Goods Act and made subject to the provisions of the Miscellaneous Goods (Maximum Prices) Order. The Order, which "froze" the profit margins of manufacturers, wholesalers and retailers, came into force on May 3 after negotiations by the P.A.T.A. and other trade organisations had resulted in a more workable form of control.

Future operation of the price-maintenance system in pharmacy and the drug trade might depend on: (1) The outcome of deliberations of the Resale Price Maintenance Committee; and (2) the Monopoly and Restrictive Practices Act. The Resale Price Maintenance Committee, which had been appointed by Sir Stafford Cripps when he was President of the Board of Trade, was to report whether "in the light of present conditions and the need for maximum economy and efficiency in the production and distribution of goods," any measures were desirable to prevent or regulate the continuance of re-sale price-maintenance practices. The P.A.T.A. had submitted evidence designed to show that the continuance of the P.A.T.A. system was essential to the well-being of pharmacy and that, if it were to go, the pharmacist might be unable to perform satisfactorily, and without financial anxiety, the professional services he rendered to the public, but which, important and essential as they were, did not normally constitute the major part of his turnover. The Monopoly Act provided for the setting up of a Monopoly and Restrictive Practices Commission, with power to investigate and report.

LEGAL REPORT

Labelling Offence. — At Dunmow, Essex, on December 8, J. F. Cunningham, Ltd., chemists, High Street, were found guilty on a charge of selling a wrongly labelled drug to which a false trade description had been applied. Fines totalling £4, with £4 4s. costs, were imposed. A fine of £1, with £1 1s. costs, was imposed on J. F. Cunningham for aiding and abetting. Giving evidence for the prosecution, a solicitor stated that a woman inspector entered Messrs. Cunningham's shop to purchase a bottle of Dettol and was told that what was being served to her was broken bulk. A subsequent analysis proved that the germicide sold by defendants was not Dettol. Cunningham, in evidence, agreed that Dettol was in short supply, and that he could not obtain enough of it, but he had no doubt at the time that the liquid supplied to the inspector was Dettol. Mr. R. A. Robinson, for the defence, pointed out that, even if Mr. Cunningham had made a mistake, he had acted in good faith in the matter.

FOLIC ACID AND CANCER

PROFESSOR E. C. DODDS, in a lecture at the 8th International Biochemical Congress, Paris, October 1948 ("Lancet," November 27, p. 837), reviewed current theories (developed in the U.S.) on the significance of folic acid and its antagonists in cancer. Folic acid, which caused remission in pernicious anæmia, had, he said, a molecular construction that enabled several variants to be synthesised. Two substances that produced a beneficial effect on animal tumours like that of folic acid had been tried clinically: diopterin (pteroyl-α-glutamyl glutamic acid) and teropterin (pteroyl-γ-glutamyl-γ-glutamyl glutamic acid) (see also *C. & D.*, 1947.II.44). Opinion was divided and several workers claimed that the effect was largely psychological. The speaker had gained the impression that interest in teropterin in the United States had declined.

Interest had swung to a group of compounds known as anti-folic-acid substances. Administering certain synthetic modifications of folic acid to animals had an inhibitory effect on the bone-marrow, resulting in profound anæmia. The effect could usually be reversed by administering folic acid, and it had been concluded that th new substances acted as folic-acid inhib tors. Confirmatory results had been ob tained using bacteria. From tissue-cultur experiments, American workers though that only a few hours' deprivation of foli acid might produce irreparable damage t malignant cells.

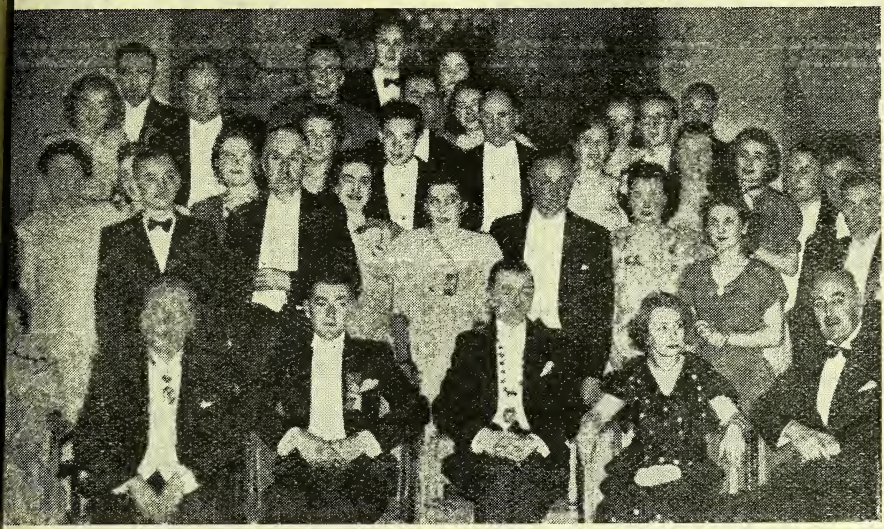
Among the anti-folic-acid compound that had been fully investigated wa aminopterin, the molecule of which was th folic acid molecule with two additiona amino groups. It was very toxic, com pletely reversed the folic-acid effect in bac teria and animals, and inhibited œstrogens but its specificity of action had not yet been proved. The compound had a slight inhibitory action on the growth of tumours in animals, and had caused remissions in five children with acute leucæmia. A-methopterin, another anti-folic-acid compound, contained an extra methyl group in addition to the amino groups of aminopterin. It was said to possess all the properties of aminopterin, though only one-tenth as toxic. It was being subjected to clinical trial with promising results.

EIRE BENEVOLENT FUND DANCE

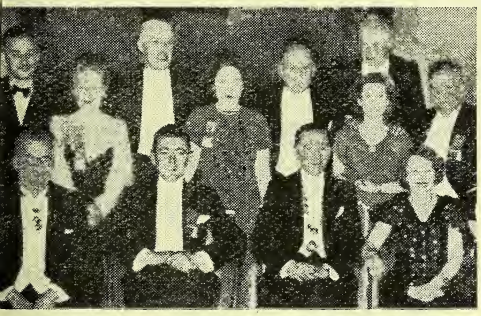
AT the annual Benevolent Fund Dance of the Pharmaceutical Society of Ireland, held in Dublin on December 7, the attendance was well over 500 and all tickets had been sold weeks before the event. A notable feature was the presence of both Mr. P. A. Brady (president of the Pharmaceutical Society of Ireland) and Mr. H. H. Cowzer (president of the Pharmaceutical Society of Northern Ireland). Mr. Brady came with a large party of friends including the Editor of THE CHEMIST AND DRUGGIST (Mr. O. F. C. Bromfield), who was warmly welcomed on his return visit to Dublin. Mr. Cowzer, who was present at the personal invitation of Mr. Brady, was accompanied by Mrs. Cowzer, and his party included Mr. W. H. Boyd (a member of the Council of the Pharmaceutical Society of Northern Ireland), with Miss D. Neill. The party had travelled by car from Belfast and in the course of their journey passed through a cloudburst. Mr. Cowzer's visit was the first presidential visit from Northern Ireland to a Dublin pharmaceutical function since a visit made by Mr. Walter Tate nine years ago. Dancing was kept up until the early hours.

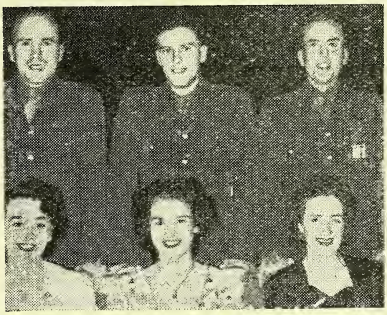
Others present included Messrs. T. C. Scott (vice-president, Pharmaceutical Society of Ireland) and party, John Gleeson (treasurer), J. G. Coleman (registrar), and J. J. Roche (president, Irish Drug Association) with party. Members of the Council present with parties included Messrs. T. B. O'Sullivan, M. Costello, N. A. P. McKane and J. P. Kissane. Also present were Mr. B. R. Smith (secretary, Irish Drug Association), Mr. and Mrs. S. MacAuley and party, Mr. and Mrs. C. J. Staunton, Mr. and Mrs. B. M. Laverty, Mr. and Mrs. C. Collis, Mr. and Mrs. T. Gleeson, Mr. Percy Harwood, Mr. and Mrs. Dowd, Mr. and Mrs. J. Smyth, Mr. and Mrs. D. McGrath and party, Dr. and Mrs. Dowling, Mr. and Mrs. M. Leonard, Mr. and Mrs. Diffney, Mr. and Mrs. Hegarty, Mr. and Mrs. M. Lawless, Mr. and Mrs. M. O'Shaughnessy, Mr. J. Gaffney, Mr. M. Hanna, Mr. K. Quinn, Mr. P. Fullam, Mr. J. Kennedy, Mr. F. E. Smith, Mr. J. Doyle, Mr. and Mrs. H. G. Smith, Miss P. Fallon, Mr. J. F. O'Grady, Mr. A. Allshire, Lieutenants Seamus Fox, John Fitzgibbon and Michael Duane, the Misses E. Vaughan, Niamh Kennedy and I. Devine, Mr. and Mrs. A. F. Roche, Mr. and Mrs. J. Holland, Mr. and Mrs. Thornton, and Mr. and Mrs. Crowley. With Mr. P. G. Redmond as chairman, the members of the year's Committee were Mr. David Murphy (secretary), the Misses B. Fullam and C. Gaffney (treasurers), the Misses S. O'Keefe, M. Foley, F. Quinn and J. Walshe, and Messrs. P. A. Brady, T. C. Scott, J. Gleeson, P. Leahy, A. Dignan, S. Fox and K. Banks.

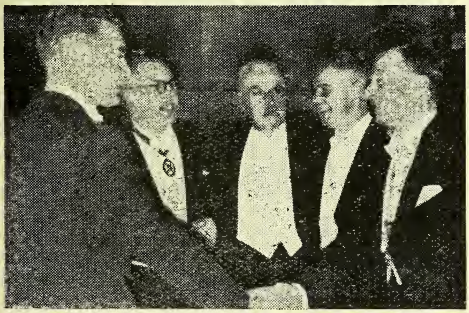
T THE EIRE BENEVOLENT FUND DANCE IN DUBLIN



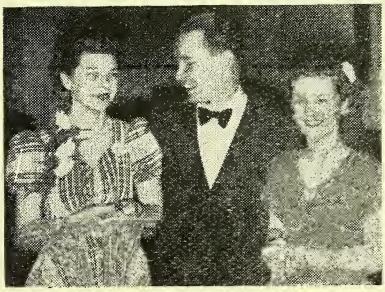
ancers grouped before the camera. In the front row are Mrs. H. Cowzer, Mr. P. A. Brady (president, harmaceutical Society of Ireland), Mr. P. G. Redmond (chairman of dance committee), Mr. Henry H. Cowzer resident, Pharmaceutical Society of Northern Ireland), Mrs. Brady, Mr. O. F. C. Bromfield (Editor, *C. & D.*)







Above: The two presidents with dance officials. Below: Mr. P. G. Redmond (chairman, dance committee) welcomes guests from Northern Ireland.



Above: Three army pharmacists with the Misses Vaughan, Kennedy and Devine. Below: Mr. J. G. Coleman (registrar, Pharmaceutical Society of Ireland), with Mrs. Cowzer and Miss Neill.

PURCHASE TAX EXEMPTION CHANGES

An Order under Sections 21 and 22 of the Finance Act, 1948, and the Purchase Tax (No. 5) Order, 1948, brings into force from December 15 a new list of drugs and medicines which are free of purchase tax. The list supersedes the existing list shown in the Purchase Tax (No. 1) Order, 1948. It includes all preparations exempted under that Order, but the arrangement does not always follow the earlier arrangement.

Entries in the Schedule to the Order which appear for the first time or under a different head are given below:—

HEAD I

Acetarsol, salts thereof and preparations containing not less than **six** per cent. by weight of acetarsol or the equivalent thereof.

HEAD II

[Any one of the substances and preparations described under this head with or without one or more of the following things, namely, an excipient, vehicle, base or preservative]:—Acetylcholine, acetyl-beta-methylcholine, and salts thereof; Aluminium hydroxide; 4-cyclohexyl-3-ethyl-1:2:4-triazole; Dehydrocholic acid and its sodium salt; Di-(2-chloroethyl)methylamine and tri-(2-chloroethyl)-amine, and salts thereof; N-diethylaminoethyl-thiodiphenylamine, and salts thereof; 1-diethylcarbamyl-4-methyl-piperazine, and salts thereof; 5:7 di-iodo-8-hydroxyquinoline; Di-isopropylfluorphosphonate; 2:3-dimercaptopropanol; Russell's viper venom, prepared for use as a hæmostatic; Stilbamidine and other diamidines of diphenyl or diphenoxy derivatives of aliphatic hydrocarbons whether substituted or not, and salts thereof; Tetraethylammonium halides; Tetraethylpyrophosphate; Tetraethylthiuram monosulphide, and preparations containing not less than 25 per cent. of tetraethylthiuram monosulphide; Triphenylchloroethylene; Yellow bone marrow concentrate.

HEAD III

[The substances described under this head, and preparations consisting only of one of those substances and one or more of the following things, namely, an excipient, vehicle, base or preservative, or of two or more of those substances whether with one or more of the following things, namely, an excipient, vehicle, base or preservative, or not]:—*p*-aminobenzenesulphonamide, salts of *p*-aminobenzenesulphonamide, derivatives of *p*-aminobenzenesulphonamide having any of the hydrogen atoms of the *p*-amino group or of the sulphonamide group substituted by another radical, salts of such derivatives and **suspensions of these substances with pectin and kaolin;** Barbituric acid and thiobarbituric acid, derivatives and salts thereof, **whether mixed with amidopyrine or not;** Benzilyl oxyethyldimethylethylammonium salts; benzyl benzoate, and preparations containing not less than 10 per cent. of benzyl benzoate; Chloroform (anæsthetic); Chorionic gonadotrophin and **serum gonadotropin;** 4:4-diphenyl-6-morpholinoheptane-3-one, and salts thereof; Ether, anæsthetic); Preparations of the following glands: parathyroid, thyroid pituitary, suprarenal, ovary, testis, spleen, corpus luteum, prostate, pancreas; Glycosides of digitalis, also the following: Homatropine; Hyoscyamine, and salts thereof; Lobeline, and salts thereof; Organomercury compounds; Pilocarpine, and salts thereof Physostigmine, and salts thereof; Sodium *p*-glycoly arsanilate; Sodium propionate, with or withou terpineol; Sparteine, and salts thereof; Trichlor ethylene, whether with or without a stabiliser or a colouring agent; Vinyl ether; The anti-microbia substances or salts thereof, produced by the growth o. *Bacillus polymyxa* on a suitable medium; The following substances, and salts and derivatives thereof:—Anti-histamine substances, being tetra substituted N derivatives of ethylene diamine; Beta-dimethylaminoethyl-benzhydryl-ether; 2-phenyl-benzyl-aminomethylimidazoline; Alpha-(3:4-dihydroxyphenyl)-beta-isopropylamine ethanol; 3^1-di-(n-butyl) amino - methyl - 4:5:6-trihydroxy - benzo - (1:2-c)-furan-1^1(3^1)-one; N-dimethylaminoethyl-N-*p*-methoxy-benzyl-alpha-amino-pyridine; N-(beta-dimethylamino-beta-methylethyl)-thiodiphenylamine. The glycoside formed by the combination of 5:7:3^1:4^1-tetrahydroxyflavanol with glucose and rhamnose.

HEAD V

[Therapeutic substances intended to be used solely for veterinary purposes, if prepared for use by injection or by application to the scarified skin, the following:—] Anti-black-disease serum; Anti-canine-distemper serum; Anti-hæmorrhagic-septicæmia serum; Clostridium pyogenes serum; Mixed or polyvalent sera whose components are exempt from tax; Pregnant mares' serum; Black disease vaccine; Contagious pustular dermatitis (Orf) vaccine; Hæmorrhagic septicæmia vaccine; Leptospira vaccine. Canine distemper prophylactics, Method I vaccine and virus; Method II virus and serum.

[Heavy type indicates the alterations in sections which are only partly changed.]

WIMBLEDON DISCUSSION

At a meeting of the Wimbledon Pharmacists' Association, Mr. T. James presiding, Mr. R. H. Kemp (local organisation officer, National Pharmaceutical Union) said that, under the National Health Service, chemists were receiving payment at rates not less favourable than would result from the use of the N.P.U. retail price list. The Pharmaceutical Society and N.P.U. had impressed upon the Minister of Health that the retail pharmacists could and should supply a complete pharmaceutical service under the National Health Service, and the results of the first four months had justified the claim. Pharmacy, said Mr. Kemp, was now faced with two major problems: manpower, and delays in payment for dispensing. The delays in payment arose from various causes for which no one could be blamed, but the N.P.U. should have been informed earlier of the serious position in the pricing offices. Mr. F. C. Wilson said the difficulties of pricing had not blown up overnight. The solution was abolition of the decimal system, and the adoption of a ½d. minimum per ingredient, plus a rapid increase in the number of pricing offices.

NEW BOOKS

Cosmetic Materials.—R. G. Harry, R.I.C. 8¾ in. x 5½ in. Pp. 479. 35s. eonard Hill, Ltd., 17 Stratford Place, ondon, W.1. The second volume of Principles and Practice of Modern Cos- etics" indexes the numerous synthetic nd naturally-occurring substances (includ- g those under proprietary trade names) sed in the preparation of cosmetics. In ndeavouring to be comprehensive, the uthor has included many substances hich, though used in certain toilet prepara- ons, are not strictly cosmetic materials, nd a number of others such as DDT, nseed oil and liver of sulphur, which are ot employed in cosmetic or toilet manu- acture. A criticism made in the book, that harmacy does not present its medicaments n a form as attractive as that of the lead- ng toilet manufacturers, is out of date in iew of recent developments, such as the nclusion of emulsifying wax in the B.P., 948.

Bacteriological and Virus Diseases.—H. J. Parish, M.D., F.R.C.P.E., D.P.H. 7¼ in. x 4½ in. Pp. 168. 7s. 6d. E. & S. Livingstone, Ltd., 16 Teviot Place, Edinburgh. The author, the clinical research director of the Wellcome Foundation, Ltd., has concisely outlined—primarily for doctors and medical students—the principles of immunology and their application to human medicine. The book stresses the treatment side rather than production or assay. Nevertheless it presents accessibly much information needed by pharmaceutical students and interesting to practising pharmacists. Three sections deal in turn with general considerations such as immunity, antisera, active immunisation tests, etc. Reproductions of colour photographs of skin tests and of colour micrographs, which are included among the illustrations given in the book, give it a greatly enhanced value to the student and interest to the general reader.

GUIDANCE ON "WHAT IS A DRUG?"

THE Ministry of Health has circulated to Executive Councils the following lists extracted from a report on the "Definition of Drugs for the Purposes of Medical Benefit," issued in 1929 by an expert advisory committee. The lists are intended as a guide to the proper classification of borderline preparations (drugs may be prescribed on form E.C.10, toilet requisites, foods and foodlike substances may not) until the Medical and Pharmaceutical Advisory Committees of the Central Health Services Council are set up and are able to advise the Minister.

No Statutory Force

The lists, now reissued, which have no statutory force, are neither up-to-date nor exhaustive, says the Ministry, so that it would be wrong, for example, to assume that any substance not named in Class A may be ordered. In particular, the Minister considers that all alcoholic liquors (e.g., port, whisky, gin, wines, stout, etc.), should be treated as Class A, and should not be ordered on form E.C.10.

CLASS A.—*Substances and preparations which were, in the opinion of the Advisory Committee, never drugs:*—

Acidophilus milk, Albulactin, Allenbury's food Ambrosia, arrowroot, Benger's food, Bovinine meat juice, Bovril, Bragg's charcoal biscuits, Brand's essences, brandy, Bulgar-Lac, calves' foot jelly, cane sugar, Carnrick's Peptonoids, casein food, Casumen, Ceregen, Cerolia cream, champagne, Chymol, coffee, diabetic bread and biscuits, Energen bread and biscuits, Glaxo, Glaxovo, Gluten bread, Glyco-Lactophos, Herogen, Horlick's milk, Hi-g-ah tea, ice, Instant Postum, iodised salt, Lactic milk, Lactogen, Lacto-dextrin, Lactose, Lemco, Mabela, Marmite, meat extracts (other than liver extracts), meat juices, Mellin's food, Melovol, Midolia biscuits, Muller's nutrient, New-promonta, Numol, nutrient suppositories, oatmeal, Ovaltine, Oxo, Panopepton, pearl barley, peptonising powders, Plasmon, Plasmon oats, Robinson's barley and groats, Roboleine, saccharin tablets, Sanaphos, Sanatogen, Savory and Moore's foods, sherry, Somatose, Tonagen, Torbet lactic oats, Valentine's meat juice, Valkasa, Vibrona, Vigoral, Virol, Virol and milk, Vitafer, Vitagen, Vitalia meat juice, Zomogen tonic food.

CLASS C.2.—*Substances and preparations which in the opinion of the Advisory Committee might be, but were not always, drugs or medicines for the purposes of medical benefit and the prescribing of which by insurance practitioners was, in the opinion of the Advisory Committee, justified only in special circumstances:*—

Allen and Hanburys' malt and oil, antiseptic soaps, Bemax, Bynin, Bynogen, Byno preparations, Bynol, Byno and oil, Bynotone, Cheltenham spa water, cod-liver oil tablets, Cream of malt, Cuticura soap, Glovo cod-liver oil tablets, Guycose, Hæmatogen, Hazeline cream, Jecomalt, Jeyes' fluid, Kepler malt and oil, Lactagol, Lactomaltine, Maltine, Maltine and oil, Metagen, Omnevit, Ostelin preparations, Ostelin, Radio-malt, Radiostol, Radiostoleum, Resinol soap, Scott's emulsion, Virolax, Vitamalt, Vitamine malt, Vitamogen, Vitmar, Wander's malt and oil, Wander's malt extract c. hæmoglobin, Yeast-Vite tablets.

HOSPITAL COSTS PER PATIENT

A STATISTICAL summary for 1947 of the King Edward's Hospital Fund for London, published recently, provides information, under "surgery and dispensary," of the cost of drugs, chemicals, disinfectants, dressings, instruments and appliances, wines and spirits and sundries, and salaries and wages of the dispensary staffs, of 159 London hospitals. From the summary the tabulated information has been abstracted.

GROUP	TOTAL	%	B	O
	£		£	£
General hospitals (117)	1,211,592	12.4	61.0	63.8
Special hospitals (42) ..	202,669	8.9	43.1	48.0
All (159) hospitals				
1947	1,414,261	11.8	57.4	61.2
1946	998,965	11.6	43.1	45.6
1938	606,511	12.4	20.5	26.6

%=percentage of total hospital expenditure.
B=average cost per occupied bed (in-patients).
O=average cost per 1,000 attendances (out-patients).

It will be seen from the table that i 1947 surgery and dispensary charges wei more than double the corresponding pr war total. The percentage of total ho pital expenditure, however, was lower i 1947 than in 193 though there was a sma rise over 1946. The co for an in-patient rose t roughly three times tha of 1938 (22s. 1d. pe week in 1947 agains 7s. 9d. in 1938). Cost pe visit per out-patient wa just over twice the pre war figure (1s. 2¾d against 6½d. in 1938)

There were wide differences in costs o attendance of out-patients at the variou types of special hospitals. Thus patients o skin hospitals cost £49.8 per 1,000 visits against £161.9 at genito-urinary hospitals.

EXAMINATION RESULTS

THE following successes are recorded in the Chemist and Druggist Qualifying examination held in England and Wales:

Aldridge, Jean K., Gillingham
Baker, R. R., Shanklin
Battersby, F., Stockport
Blackham, J., West Bromwich
Blackwell, B. H., Mill Hill
Bolton, G. R. H., Parkstone
Bradbury, Violet I., Birkenhead
Bradshaw, J. W. M., Northampton
Clark, Audrey (Mrs.), Salford
Clarke, Theresa M., Crumpsall
Colleer, M. J., Colchester
Collins, M. B., Bournemouth
Cumming, Irene, Clitheroe
Cunliffe, Peggy L., Todmorden
Davies, D. P., Pentonville
Davies, G. G., Swansea
Davies, K. W., Cardiff
Dowding, Gwendoline M., Bath
Fry, Valerie J. (Mrs.), Torquay
George, B. L., Westcliff
Gillings, K. J., Ipswich
Horrocks, P., Oldham
Howard C., Oldham
Howell, B. P., Cardiff
Hucklesby, K. F., Harpenden
Hurst, G. E., Didsbury
Huxham, G. R., Ilfracombe
Jenkins, E., Alfreton
Jones, Eifion, Carnarvon
Jones, Margaret B., Towyn
Kasmaty, L. H., Manchester
Knowles, N., Leicester
Levy, Joyce, Bournemouth
Lloyd, L. H., Liverpool
Macdonald, Norma, Manchester
Manning, Phyllis M., Plymouth
Matson, F. R., Edmonton
Meech, D. H., Bournemouth
Miller, A. R. K., Glemsford
Miller, J., South Shields
Mills, G., Nuneaton
Morgan, M. L., Aberdare
Oxley, Daphne P., Salisbury
Pearn, D., Bramhall
Pettinger, E. J. C., Leicester
Pulley, K. G., Redhill
Roods, P. H., Louth
Ross, Jean E. S., Aldershot
Rothwell, Audrey, Leigh
Scott, W., Edinburgh
Shaw, Marjorie A., Accrington
Solomon, G., Poplar
Strange, G. W., Sturminster Newton
Thomas, S. R., Totnes
Williams, Margaret H., Aberdovey
Winter, C. L., Manningtree
Winterburn, P. B., Bradford
Wood, C. G., Tutbury

The following candidates were successful in Scotland:—

Alderson, Dorothy, Halifax
Atkinson, R. G., Sunderland
Bille, I. R., Aberdeen
Black, D. A., Chester le Street
Brinnand, Jean, Preston
Bulmer, J. R., Leeds
Christie, E. B., Newbigging
Clair, R., Ipswich
Clark, C. G., York
Clunes, Gwendoline M., Glasgow
Crook, H., Glasgow
Cummergen, V., North Shields
Dexter, Violet, Douglas, I.O.M.
Dickson, J., Edinburgh
Easton, Lillias P., Helensburgh
Edkins, D. D., Wirral
Ford, C. A., Morecambe
Freeman, Max, Glasgow
Goodkin, L. S., Birmingham
Gorsky, P. S., Liverpool
Graham, A., Annfield Plain
Gramse, W., Aberdeen
Griffiths, C. S., Liverpool
Griffiths, T. J., Harrogate
Heap, F. R. W., Haslingden
Hemensley, J. A., Douglas, Isle of Man
Henderson, C. N., York
Henderson, L. W., Aberdeen
Herd, S. W., Edinburgh
Ireland, Dorothy M., Lancaster
Jefferson, K. S., Bradford
Jones, Isabel M., Liverpool
Kerruish, E. D., Douglas, I.O.M.
Knowlson, D. G., Easingwold
Kramer, G., Huddersfield
Lumb, Joyce, Hebden Bridge
Lund, Arthur Bernard, Bradford
McCabe, Gwen V., Wirral
McMartin, Marjorie, Wetherby
Marsden, D., Alloa
Maule, R. B., Edinburgh
Morrison, R., Arbroath
Myerscough, Rosamund P., Blackpool
O'Hare, Helena M., Liverpool
Paterson, I. R., Glasgow
Pepper, E. R., Carnarvon
Perkins, Dorothy, Skipton
Pollock, J. P., Torryburn
Rostek, J., Alcester
Rowlands, D. R., Birkenhead
Short, Marion, Newcastle
Snowden, Nancy E. (Mrs.), Keighley
Souza, J., Edinburgh
Spencer, R., Thornliebank
Stewart, R. J., Edinburgh
Still, A. C., Cumbernauld
Stuart, M. N., Salford
Swire, R., Rochdale
Taylor, Isobel F. G., Cupar
Thomas, N. O. D., Liverpool
Watt, C. S., Edinburgh
Watt, W. T., Glasgow
Whalley, E. R., St. Helens
Whittle, Marie T., St. Helens
Wilkes, Margaret J., Bristol
Wilkinson, Eileen P., Halifax

CORRESPONDENCE

Testing Time

SIR,—The authorities have no confidence my integrity or professional ability—y intend to test my dispensing. I would llingly join any fair-sized movement to minate the contract the moment the test applied. Even the threat of such a movent might do some good.

NOT-SO-CIVIL-SERVANT.

"Scottish Chemist" Replies

SIR,—There have been several replies to y recent letter (*C. & D.*, November 6, p. 5) on the menace of "co-ops" and mulple concerns. While there is much truth the replies, still I believe that pharmasts are being "led up the garden" by cepting posts at fantastic salaries. All at glitters is not gold. What is to be e destiny of the future generation of emists? They will be slaves to these eat octopuses if no check is applied now. he remedy is in our own hands.

SCOTTISH CHEMIST.

Penicillin Pastilles

SIR,—The excellent article on B.P. penillin preparations by Davies and Hough *C. & D.*, December 4, p. 736) prompts ne to draw attention to an ingenious nethod I have recently examined for prenting penicillin for oral treatment. The lisadvantages of the soft gelatin pastille re its short life, owing to moisture conent and its rapid solution in the saliva Grainger and White, "Pharmaceutical Journal," 1945.155.3). The lozenge has been criticised by many workers because of the danger of stomatitis (MacGregor, "British Medical Journal," 1947.1.197). A gelatin pastille produced by Carnegie Bros., Ltd., is an attempt to combine the advantages of both the older preparations without their disadvantages. The somewhat friable product (made by compressing dry gelatin granules) is "case-hardened" by moistening the surface and then drying off in a current of warm air. The pastilles take three to four hours to dissolve in the saliva, and give a steady penicillin content of 2-3 units per c.c. The soft gel surface is comfortable in the mouth. Being dry, the pastilles have a normal shelf life of about four months.

Yours faithfully,
H. S. GRAINGER, *Chief Pharmacist,*
London, S.W.1. Westminster Hospital.

Summer and Winter Dispensing Averages

SIR,—I cannot find strong enough terms with which to castigate the present system of paying for winter dispensing under the National Health Service on the July average—the winter drug bill is inevitably higher in average cost than the summer figure. In 1947 our July average was 1s. 7d. per N.H.S. script, and our December average was 2s. 3d. I know of no reason for assuming that '48 should prove different in kind from '47. Realising the pressure of work on the pricing bureaux, I am prepared to lose on August and September N.H.S. dispensing. The loss on October and November if no adjustment is made for seasonal variation is too considerable to neglect. The following table makes this clear:—

	July '48	Oct. '48	Nov. '48
Scripts costing over 2s. and less than 5s.	Per cent 2.3	Per cent. 20	Per cent. 17.3
16-oz. mixtures ...	5.4	19	25
1 lb. cotton wool ...	0.2	Not known	2.0
2 lb. kaolin poultice .	0.4	Over 10	8

Yours faithfully,
PROVOCATIVA.

FIFTY YEARS AGO

Introducer of Eucalyptus Oil

(*From the C. & D., December* 17, 1898)

FROM Melbourne we learn of the death of the veteran pharmacist Mr. Joseph Bosisto, C.M.G., in his seventy-eighth year. Mr. Bosisto . . . emigrated to Australia fifty years ago and opened a pharmacy in Richmond, Melbourne. There he did well, but his interest in the business side of pharmacy did not prevent him indulging his botanical bent, and early in the fifties he commenced the study of the eucalypts which practically helped to make the remarkable properties of these trees known to the world. By-and-by the late Baron von Müller joined him in the investigation, taking up the scientific side, while Mr. Bosisto devoted himself to the economic, and this enabled him to perfect his study of the eucalyptus oils. The distillation of these oils he made a business in the sixties, and he sent a complete collection of oils to the Paris Exhibition, 1868, this being the first complete collection received in Europe.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade

28 Essex Street, W.C.2, Dec. 15

A STEADY stream of inquiries for PHARMACEUTICAL and FINE CHEMICALS continues to arrive from overseas buyers. BROMIDES, in particular, have been in good request during the past week. Home-trade demand is fairly steady with no alterations of prices. In the markets for CRUDE DRUGS there has been a moderate business. A fair trade has been passing in MENTHOL, both for export and for the home trade; there have been reports of cheap prices from Brazil as a result of a good PEPPERMINT crop. Japan is offering CAMPHOR at prices as low as 3s. 3d. per lb., c.i.f. CASCARA SAGRADA continues a disappointing market and there are sellers of mature bark at very low figures. A moderately good shipment trade has been done in ERGOT during the last few days at about 5s. 4d. per lb.; spot quotations for this drug are at 5s. 9d. Prices of Sudanese HENNA on the spot vary considerably according to holder. SENEGA continues a dull market. Kombé STROPHANTHUS is firmer on the spot. A parcel of Trinidad frosted TONKA BEANS is offering at 7s. per lb. spot. In SPICES, firmer spot markets are reported for Mombasa CHILLIES, Zanzibar and Madagascar CLOVES, and Jamaica (No. 3 grade) GINGER.

The ESSENTIAL OILS markets are little changed on the week. There is evidence that merchants are anxious to make headway in a number of medicinal oils such as ANISE and EUCALYPTUS. Prices of the former product might be shaded in the event of any substantial inquiry.

U.S. Drug and Chemical Report

New York, December 10

INQUIRIES in the PHARMACEUTICAL and FINE CHEMICAL markets continue somewhat below the usual volume for this time of the year although the advent of colder weather has brought an increased demand for synthetic EPHEDRINE, OPIATES and similar products. The production of SULPHONAMIDES is reported to have increased considerably in September—rising to 275,018 lb., from 164,267 lb. in the previous month. Reports of limited sales again came from the BOTANICAL and CRUDE DRUGS markets this week. CARNAUBA WAX is meeting with little demand and prices dropped about two cents per lb. with dealers reiterating earlier statements that the maintenance of the minimum price levels in Brazil will result in large-scale switching by consumers here to synthetic products. PEPPER prices have eased substantially and the black variety is now quoted at 77 cents per lb. on the inside, and the white at 80 cents. European BELLADONNA LEAVES are reported to have reappeared on the market here following the arrival in November of about 80 bales of Italian and Jugoslavian produce. New crop Mexican VANILLA BEANS are now starting to be shipped but reports say that the harvest will not reach earlier estimates of 300,000 lb.

A patchy business is reported from both the ESSENTIAL OILS and AROMATIC CHEMICALS markets. While quotations for most oils remain at their lowest levels since the war, the downward trend in both LEMON GRASS and Ceylon CITRONELLA has been reversed—the former going up to $1.40 per lb. from $1.20 previously, and the latter advancing two cents to 70 cents per lb. on the inside. Aromatic products derived from coal tar are firm to strong.

Pharmaceutical Chemicals

ACETIC ACID.—The controlled maximum prices per ton are: B.P. (33 per cent.), 1 ton or over, £36; 10 cwt. but less than 1 ton, £37; 4 cwt. but less than 10 cwt., £38, delivered buyer's premises. 80 per cent., pure, is £30 per ton and 98-100 per cent. (commercial glacial), £43 per ton more than the rates for B.P. For deliveries of less than 4 cwt. there is no maximum price.

BARBITONE.—Base and soluble are offered at prices from 43s. 6d. to 46s. per lb.

BARIUM SULPHATE (*x*-ray).—Prices are unchanged. 1 cwt., 1s. 3d. per lb. Schedule rates per lb. (containers in brackets), for quantities between 28 lb. and 1 cwt. are as follows: 1s. 8d. (1-lb.), 1s. 7d. (2-lb.), 1s. 6½d. (4-lb.), 1s. 5½d. (7-lb.), 1s. 5d. (14-lb.). 1s. 4d. (28-lb.).

CHLOROFORM.—Makers' price for 1-cwt. lots in winchesters is 3s. 2d. per lb.; 56-lb., 3s. 2½d. In drums, prices are 3s. 0½d. and 3s. 1d. per lb. respectively.

COCAINE.—Rates per oz. are as follows: ALKALOID, CITRATE, and SALICYLATE, bottles, ⅛-oz., 63s.; ¼-oz., 59s. 6d.; ½-oz., 56s. 6d.; 1-oz., 55s. 6d.; 4-oz., 55s.; 8-oz., 54s. 3d.; 16-oz., 53s. 9d.; tins, 25-oz., 53s. HYDROCHLORIDE, NITRATE and SULPHATE, bottles, ⅛-oz., 56s.; ¼-oz., 52s. 6d.; ½-oz., 50s.; 1-oz., 48s. 6d.; 4-oz., 48s.; 8-oz., 47s. 3d.; 16-oz., 46s. 9d.; tins, 25-oz., 46s. The quotations include cost of containers.

CREAM OF TARTAR.—Current rates for the home trade: 10-cwt. lots, 153s. per cwt.; 5 to 10 cwt., 154s.; less than 5 cwt. and more than 2 cwt., 155s.; less than 2 cwt. and more than 1-cwt., 157s.

CREOSOTE.—B.P. quality, ex beechwood, quoted at from 7s. per lb., upwards.

CRESOL.—Controlled price of B.P. quality from distillers is 4s. 6d. per gall., ex sellers' premises.

EMETINE.—Makers' rates per oz. are as follows: HYDROCHLORIDE, 1 oz., 187s.; 4 oz., 180s.; 16 oz., 177s. 6d.; 32 oz., 175s. BISMUTH IODIDE, 1 oz., 96s. 6d.; 4 oz., 95s.; 16 oz., 93s. 6d.; 32 oz., 92s.

ETHYLMORPHINE. — Home trade prices per oz.: ALKALOID, ½ oz., 57s. 6d.; 1 oz., 55s.; 2 oz., 53s. 6d.; 3 oz., 52s. 9d.; 4 oz., 52s. 6d. HYDROCHLORIDE, ½ oz., 49s.; 1 oz., 46s. 6d.; 2 oz., 45s.; 3 oz., 44s. 3d.; 4 oz., 44s.

GLYCEROPHOSPHATES. — Makers' list prices per lb. are as follows: CALCIUM SOLUBLE, 10s. 6d.; IRON SCALE, 11s. 9d.; ACID, 20 per cent. (B.P.C.), 8s. 3d.; MAGNESIUM (INSOLUBLE), 10s.; MAGNESIUM (SOLUBLE), 19s. 3d.; MANGANESE, 24s. 3d.; POTASSIUM, 50 per cent., 5s. 11d.; 75 per cent., 7s. 9d.; SODIUM, 10s. 9d.; 50 per cent., 4s. 7d.; 75 per cent., 5s. 8d. Quantities of 7 lb., 6d. per lb. less than above rates; other quantities in proportion.

HYDROQUINONE.—Bulk rates are as follows: 10-cwt., 9s. 6d.; 5-cwt., 9s. 9d.; 1-cwt., 10s.; 28-lb., 11s.; 14-lb., 11s. 3d.; 7-lb., 11s. 6d. per lb. Carriage paid in U.K.

IODINE PREPARATIONS.—Makers' prices per lb. for the home trade are as follows: POTASSIUM IODIDE, B.P.—1 cwt., 11s. 1d. SODIUM IODIDE, B.P.—28 lb., 12s. 1d. IODOFORM, B.P.—28 lb., powder, 15s. 7d.; crystals, 17s. 7d. RESUBLIMED IODIDE, B.P.—1 cwt., 12s. 8d. Orders of 28 lb. and upwards may be made up with assorted preparations at schedule rates. Packages are extra. Contracts may be booked for 1 cwt. and over of assorted preparations for delivery as required within three months with rise and fall clauses. Special rebate of 4d. per lb. allowed on quantities of 5 cwt. in one delivery, or on contract for delivery within three months.

ISOPROPYL ALCOHOL. — Makers quote 15s. 3d. per gall. for small lots.

LACTOSE.—Quotations are from £120 per ton upwards, according to quantity.

MAGNESIUM HYDROXIDE, B.P.C.—Makers' price for 1-cwt. lots is 2s. 11d. per lb.

MAGNESIUM OXIDE (B.P. LEVIS).—Prices for the home trade (per lb.) are as follows: Containers in brackets, 28 lb. to 1 cwt., 3s. 5d. (1-lb.): 3s. 4d. (2-lb.); 3s. 3½d. (4-lb.); 3s. 2½d. (7-lb.); 3s. 2d. (14-lb.); 3s. 1d. (28-lb. per lb.). Larger quantities range from 2s. 4½d. to 2s. 6d. per lb. in 28-lb. packages, as to quantity, carriage paid.

MAGNESIUM TRISILICATE (B.P.).—Prices (per lb.) in the home trade are unchanged. Containers in brackets. 28 lb. to 1 cwt., 4s. 4d. (1-lb.): 4s. 3d. (2-lb.); 4s. 2½d. (4-lb.); 4s. 1½d. (7-lb.): 4s. 1d. (14-lb.); 4s. (28-lb.) per lb. Bulk quantities range from 3s. 2d. to 3s. 4d. per lb. in 28-lb. packages, as to quantity, carriage paid.

MANDELIC ACID.—Steady. Current prices are: 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 9d.; 28 lb., 15s.

MERCURY SALTS.—Makers' rates per lb. for 1-cwt. lots are: AMMONIUM CHLORIDE, B.P., lump, 7s. 8d., powder, 7s. 10d.; YELLOW OXIDE, B.P., and RED OXIDE, B.P.C., 8s. 4d. BICHLORIDE, B.P., lump, 7s., powder, 6s. 5d.; MERCUROUS CHLORIDE, B.P., 7s. 10d. Quotations for small quantities of MERCURY WITH CHALK, B.P., are at 4s. 9d., for MERCURIC CYANIDE, 18s. 9d., and for OLEATE, B.P., 5s. per lb.

MORPHINE.—Prices per oz. current in the home market are: ALKALOID, ½ oz., 55s. 3d.; 1 oz., 52s. 9d.; 2 oz., 51s. 3d.; 3 oz., 50s. 6d.; 4 oz., 50s. 3d. HYDROCHLORIDE, ½ oz., 46s. 9d.; 1 oz., 44s. 3d.; 2 oz., 42s. 9d.; 3 oz., 42s.; 4 oz., 41s. 9d.; BIMECONATE and TARTRATE, as ALKALOID; ACETATE, HYDROBROMIDE and SULPHATE, quoted the same as HYDROCHLORIDE.

PHENAZONE.—Nominal prices are from 32s. 6d. to 35s. per lb.

STRYCHNINE.—Makers' current rates per oz. are as follows:—

Compound	Under 25 oz.	25 oz. and under 100 oz.	100 oz. and under 500 oz.
	s. d.	s. d.	s. d.
Alkaloid ...	6 2	6 0	5 10½
Bisulphate ...	5 4	5 2	5 0½
Hydrochloride	5 11	5 9	5 7½
Hypophosphite	9 8	9 6	9 4½
Nitrate	5 11	9	5 7½
Sulphate (neutral powder No. 2) ...	11	9	4 7½
Sulphate (neutral crystal and powder)	5 6	5 4	5 2½

SULPHANILAMIDE. — In good request. Prices are steady as follows: 5 cwt., 6s. 3d.; 1 cwt., 6s. 6d.; 28 lb., 6s. 10d.; 14 lb., 7s.; 7 lb., 7s. 9d. per lb., net; packing extra.

VALERIANATES.—Prices are unchanged. AMMONIUM, 14 lb., 37s. 6d.; 7 lb., 38s. 6d.; 1 lb., 39s. per lb. AMYL, 14 lb., 23s. 6d.; 7 lb., 25s.; 1 lb., 26s. per lb. CAFFEINE, 14 lb., 105s.; 7 lb., 107s. 6d.; 1 lb., 110s. per lb. CALCIUM, 14 lb., 33s.; 7 lb., 34s.; 1 lb., 34s. 6d. per lb. ETHYL, 14 lb., 32s. 6d.; 7 lb., 33s.; 1 lb., 34s. per lb. IRON, 14 lb., 53s.; 7 lb., 54s. 6d.; 1 lb., 55s. 6d. per lb. MENTHYL, 14 lb., 57s. 6d.; 7 lb., 58s.; 1 lb., 59s. per lb. METHYL, 14 lb., 32s. 6d.; 7 lb., 33s.; 1 lb., 34s. per lb. QUININE (B.P.C.), 100 oz., 12s.; 50 oz., 12s. 6d.; 20 oz., 13s. 6d. per oz. ZINC, 14 lb., 53s.; 7 lb., 54s. 6d.; 1 lb., 55s. 6d. per lb.

VANILLIN.—Current rates are: 5 cwt., 22s. per lb.; 1 cwt., 22s. 3d.; 56 lb., 22s. 6d.; smaller quantities, 22s. 9d. per lb. Supplies from maker are on quota.

ZINC OXIDE.—Quantities of 1 ton are quoted at £110 15s. per ton; 3 cwt. and over, £111 15s.; under 3 cwt., £113 5s.

Crude Drugs

ACONITE.—Steady. Indian, on the spot is quoted at 275s. per cwt.; *Napellus*, offered at 3s. 10½d. to 4s. 3d., duty paid.

AGAR.—Kobé No. 1 strip on spot is offered at 17s. 6d. per lb., with other grades of Japanese strip down to 14s. 6d. per lb., duty paid; forward, 14s. to 15s., c.i.f., nominal. South African powder, in tins in cases, quoted at 20s. per lb., spot.

BALSAMS.—*Canada* on spot is offered at about 19s. per lb. Pará *Copaiba* (soluble) 4s. 9d. to 5s. per lb., spot. San Salvador, *Peru*, is quoted at around 5s. per lb., duty paid. Tolu, spot, easier at 13s. 6d. per lb.

BELLADONNA.—Yugoslav root is quoted at from 4s. 6d. to 4s. 9d. per lb. duty paid, as to test; English leaves are offering at from 4s. 9d. (0.546 per cent.) per lb.

BUCHU.—Any available supplies of short rounds on spot are offered at about 4s. per lb. Ovals, 3s. 6d. per lb.

CAMPHOR.—Chinese tablets are offered at from 7s. 6d. to 8s. 6d.; refined powder (B.P.), 7s.; B.B. grade, 6s. 6d.; slabs (2½-lb.), 7s. 3d.; crude powder, 6s. per lb., all spot London, duty paid.

CASCARA SAGRADA.—A dull market. 1946 and 1947 peel are offering at around 200s. per cwt. Current crop on spot is quoted at about 195s., duty paid.

CHAMOMILE FLOWERS.—Spot quotation for Belgian is 4s. per lb. An easier market.

CHILLIES.—Firmer. Mombasa on spot, 115s. per cwt.; forward, 110s., c.i.f. Nigerian, spot, 95s. per cwt.; Japanese-type, 160s.

CINNAMON.—Spot quotations for 0000 are at from 2s. 9d. per lb.; quillings are offered at 1s. 4d., featherings at 1s. 3d. and chips at 5d. per lb.

CLOVES.—A firmer market. Zanzibar, spot, quoted at 11½d. per lb.: shipment, 1s., c.i.f. Madagascar, spot, 10d., duty paid; shipment, 8d., c.i.f. Penang, spot, 2s. 9d. to 3s. per lb.

COD-LIVER OIL.—Prices are unchanged. British-produced oil of B.P. quality is quoted from 12s. per gall., delivered in the United Kingdom.

ERGOT.—Spot offers are at 5s. 9d. per lb., and shipment business has been done at about 5s. 4d., c.i.f.

GENTIAN.—French natural on spot is quoted at from 60s. to 62s. per cwt.; sliced root is offered at 75s., spot; dearer to come forward.

GINGER.—African on spot is quoted at 87s. 6d. per cwt. Jamaican No. 1 quoted at 132s. 6d.; No. 2, 127s. 6d.; No. 3 is dearer at 125s. per cwt., spot.

GUM ACACIA.—Steady and quiet. Kordofan cleaned sorts on the spot are offering at 66s. per cwt.; shipment, 61s., c.i.f. Bleached No. 1, 125s., spot; shipment, 115s., c.i.f. Supplies of Talha on spot are small and prices are at 47s. 6d. per cwt.; forward, 41s., c.i.f.

IPECACUANHA.—Spot supplies are offering at 23s. 6d. per lb.; December-January, 21s., c.i.f., sellers.

MENTHOL.—Brazil on the spot is offered at 45s. per lb., duty paid; in bond, 43s.; new-crop reported offering at origin at as low as 35s. per lb., c.i.f. Chinese is offering at 65s. per lb., spot.

NUTMEG.—Steady. West Indian 80's, on the spot, 3s.; sound unassorted, 2s. 10d.; wormy and broken, 1s. 8d. per lb.

ORRIS.—Florentine root on the spot is offered at 130s. per cwt.; Verona root, 110s. to 120s. per cwt., spot.

PAPAIN. — Quotations are unchanged. East African No. 1 white on the spot is offering at about 19s. per lb. and Ceylon at 16s. per lb.

RHUBARB.—Chinese rough round on spot is firm at from 4s. 6d. to 5s. per lb.; shipment offers of sound root at origin are at 4s. 2d., c.i.f. Wormy material on spot is quoted at 2s. 9d. to 3s. per lb.

SEEDS.—Market still continues quiet with only a small amount of business reported during the past week. ANISE.—Cyprus, 1s. 5d. per lb., and Turkish, 1s. 4d. per lb., duty paid, spot London. CARAWAY.—Dutch is firm at 120s. to 122s. 6d. per cwt., duty paid spot London. CELERY.—Indian is quoted at 1s. 2d. per lb., spot London or Liverpool. CORIANDER.—Argentine is unchanged at 40s. per cwt., duty paid, spot London or Liverpool; Morocco, in poor demand, 39s. per cwt., duty paid, quoted, spot London only. CUMIN.—Little more inquiry. Indian quoted at 185s. per cwt., spot Liverpool; Cyprus remains at 190s. per cwt., spot London. DILL.—Indian, offered at 47s. 6d. per cwt., spot London, and 47s. per cwt., spot Liverpool. FENNEL.—Indian quiet and unchanged; 70s. per cwt. quoted, spot London or Liverpool. FENUGREEK.—Indian, spot London, is 54s. per cwt.; a quantity lying in Liverpool has been reported as having been sold under 54s. per cwt. Morocco is 55s. per cwt., duty paid, ex store London or Liverpool.

SENEGA.—Spot offers are at 8s. 6d. per lb.; 8s. per lb., c.i.f. asked at origin.

SHELLAC.—Spot quotations, ex London warehouse, are: F.O.T.N. pure, 330s.; F.O. Standard 1, 340s.; fine orange, 350s. to 390s. per cwt.

STROPHANTHUS.—Steady. *Kombé*, 100 per cent., spot, is quoted at 11s. 6d. per lb.

TONKA BEANS.—Steady. Spot quotations are at 5s. 9d. per lb. for Pará blacks, and 7s. for Trinidad frosted.

TRAGACANTH.—Steady. Selected white, £90 per cwt.; other white grades, from £55 to £85; pale leaf, £35 to £40; amber, £20 to £27; red, £14; hoggy, about £10 10s.

WAXES.—The markets have been quiet. BEES'.—Dar-es-Salaam, 335s. per cwt., spot; 315s., c.i.f., nominal. Benguela, 335s., duty paid; in bond, 310s.; shipment, 300s., c.i.f. CANDELILLA. — Prices are higher at 405s. per cwt. for spot supplies and 400s., c.i.f., for shipment. CARNAUBA.—Prime yellow, 710s. per cwt., spot; 650s., c.i.f. Fatty grey, on spot, 470s. per cwt.; shipment, 440s., c.i.f., buyer's licence. Chalky grey, 440s., spot; 410s., c.i.f. MONTAN.—Reibeck, 285s. per cwt., spot; Czechoslovak crude, 255s. OURICURI.—1 per cent., 430s. per cwt., c.i.f. 2.8 per cent., spot, 430s.; 6 per cent., spot, 420s.; 9 per cent., spot, 405s. SPERMACETI.—Steady at 2s. 10½d. per lb., spot.

Essential and Expressed Oils

ALMOND.—Sweet oil, B.P., is quoted at from 5s. to 6s. 6d. per lb. Bitter essential oil is offered at from 27s. 6d. to 40s. per lb., as to quantity and grade.

ANISE.—Steady. Chinese star, in drums, is quoted at 5s. 1d. to 5s. 3d. per lb., with up to 5s. 6d. for smaller quantities; afloat, 5s., c.i.f.; for shipment, 4s. 10d., c.i.f.

CINNAMON.—Steady. B.P. oil, 60s. to 70s. per lb. Bark oil is offered at 12s. per oz. Leaf oil, on the spot, 7s. to 9s. per lb.

CORIANDER.—Firm. English-distilled is quoted at about 280s. to 290s. per lb.

EUCALYPTUS.—Spot quotations for 70-75 per cent. (B.P.) are from 3s. 1d. to 3s. 3d. per lb. for drums, and up to 4s. for smaller quantities; shipment, 3s., c.i.f.

GUAIACWOOD.—Spot quotations are unchanged at from 18s. to 20s., according to holder.

LEMONGRASS.—Spot supplies are steady at about 7s. 1½d. per lb.; shipment, December-January, 7s. 1½d. per lb., c.i.f.

NUTMEG.—English-distilled oil is priced at from 37s. 6d. to 40s. per lb.

ORANGE.—Sicilian bitter, for shipment, is quoted at 13s. to 13s. 6d. per lb., c.i.f.; nominal spot value, 15s. to 17s. Jamaican bitter is quoted at 15s., spot. West African sweet, forward, 6s. 9d. to 7s. per lb., c.i.f.

ORIGANUM.—Quotations are from 18s. to 20s. per lb., spot, according to holder.

PALMAROSA.—Nominal on spot at 34s. per lb.; shipment, new-crop, 28s. 6d., c.i.f.

PATCHOULI.—Singapore on the spot is quoted at from 27s. to 30s. per lb. Seychelles oil is at about the same prices.

PIMENTO BERRY.—English-distilled oil is offered at from 50s. to 70s. per lb. and upwards, as to quantity and grade.

PINE.—*Pumilionis* is quoted at about 17s. to 18s. per lb., spot; *sylvestris* is available at 9s. 6d. to 11s. 6d.

PINE NEEDLE.—Supplies on spot are offered at 18s. to 20s. per lb., for first-grade.

ROSEMARY.—Spanish is offered at 7s. to 9s. per lb., as to quantity and quality.

SANDALWOOD.—English-distilled, in limited supply, is quoted at 75s. to 90s. per lb. Mysore oil is offered at from 60s. to 65s., as to quantity and seller.

SASSAFRAS.—Spot offers are at from 5s. 3d. to 6s. 6d. per lb.

TEASEED.—Spot supplies are offered at from 35s. to 36s. per gall. of 9 lb.

THYME. — Red oil (40-42 per cent. phenols), 12s. 6d. to 15s. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

TI-TREE.—Quotations are from 7s. 6d. to 8s. per lb., according to quantity.

VETIVERT.—Bourbon on spot is quoted at from 65s. to 85s. per lb., as to grade.

YLANG YLANG.—Bourbon, 60s. to 80s. per lb. as to grade and seller.

Synthetics and Isolates

QUOTATIONS are per lb. and vary according to grade, quantity and seller.

DIETHYL PHTHALATE.—2s. to 2s. 6d. DIMETHYL BENZYL CARBONOL.—50s. DIMETHYL HYDROQUINONE.—37s. 6d. to 40s. DIPHENYL METHANE.—6s. 6d. to 7s. DIPHENYL OXIDE.—5s. 6d.

ETHYL BENZOATE.—Easier, 4s. 9d. to 6s. ETHYL BUTYRATE.—6s. to 7s. ETHYL CINNAMATE.—12s. 6d. to 13s. ETHYL ŒNANTHATE.—18s. 6d. to 20s. ETHYL SALICYLATE.—Easier, 4s. to 5s. ETHYL VANILLIN.—51s. EUCALYPTOL.—9s. to 10s. 6d. EUGENOL.—14s. to 16s.

GERANIOL.—Ex Ceylon, 15s. to 23s.; ex Java, 22s. to 25s.; ex Palmarosa, 72s. 6d. to 75s. GERANYL ACETATE.—Ex Java, 22s. 6d. to 25s.; ex Palmarosa, 70s. to 72s. 6d.

HELIOTROPINE.—Easier, 15s. 6d. to 18s. 6d. HYDROXY-CITRONELLAL.—Perfumers' 53s. to 57s. 6d.; for soaps, 50s. to 52s. 6d. INDOLE (per oz.).—10s. to 15s. IONONE.—100 per cent., 32s. 6d. to 34s. ISOBUTYL ACETATE.—2s. 6d. to 3s. 6d. ISOBUTYL BENZOATE.— 5s. 6d. to 7s. ISOBUTYL SALICYLATE.—6s. to 7s. 6d. ISEUGENOL.—17s. 6d. to 19s. 6d. LINALOL.—47s. 6d. to 52s. 6d. LINALYL ACETATE.—50s. to 52s. 6d.

METHYL ACETOPHENONE.—12s. 6d. to 14s. METHYL ANTHRANILATE.— 14s. to 15s. METHYL BENZOATE.—5s. 3d. to 7s. 6d. METHYL CINNAMATE.—12s. 6d. to 14s. METHYL PHENYLACETATE.— 7s. 6d. to 8s. 6d. METHYL HEPTIN CARBONATE.—285s. METHYL IONONE.—37s. 6d. to 40s. METHYL PHENYL CARBINYL ACETATE.—11s. 6d. to 12s. 6d. MUSK AMBRETTE.—55s. MUSK KETONE.—50s. MUSK XYLOL.—7s. 6d. to 9s. 6d. MUSTARD OIL (artificial).—16s. 6d. to 18s.

NEROLIN BROMELIA.—16s. 6d. to 17s. 6d. NEROLIN YARA YARA.—9s. 6d. to 10s. 6d. PARACRESYL ACETATE.—8s. 6d. to 9s. 6d. PARACRESYL PHENYLACETATE.—10s. 6d. to 11s. PHENYLACETALDEHYDE.—Easier, 60s. to 70s. PHENYLACETIC ACID.—6s. to 8s. PHENYLETHYL ALCOHOL.—21s. 6d. to 23s. 6d. PHENYLPROPYL ALCOHOL.—25s.

RHODINOL.—122s. 6d. SAFROLE.—10s. 6d. SANTALOL.—100s. to 120s. TERPINEOL.—Perfumers', 3s. 4d. to 4s. TERPINYL ACETATE.—9s. to 10s. VETIVEROL.—250s. VETIVERYL ACETATE.—Easier, 280s.

TRADE MARKS

(*From the "Trade Marks Journal," November 24*)

"VIVAVIT" and device of running horse and man; by Viva, Lugano; 652,567. For infants' and invalids' foods (5).

"GLISS"; by Liss Bros., London, N.5; 659,647. "NEW LOOK" by Norman Victor Lundie, Southport; 665,842. For all goods (5).

"MACULENE"; by Hough, Hoseason & Co., Ltd., Manchester; 661,601. For all goods excluding iodine for use in dentistry, etc. (5).

"JEAN-ODO" in distinctive lettering; by Jean Products, Croydon; 663,711. For medicated deodorant cream for personal hygiene (5).

"NEPECTUS"; by Charles Henry Ashton, Grimsby; 663,975. For medicines (5).

"HALLS"; in distinctive lettering; by Hall Brothers (Whitefield), Ltd., Whitefield; 664,306-08. For medicated sweetmeats (5).

"BETANEX"; by Imperial Chemical Industries, Ltd., Slough; 664,419. For veterinary and sanitary substances, insecticides and preparations for destroying vermin (5).

"STIMULAX"; by G. T. Fulford Co., Ltd., London, W.1; 664,463. For laxatives (5).

"PESGO"; by the Astley Dye & Chemical Co., Ltd., Bolton; B665,939. For insecticides (5).

"ORTHO" on shield device; by Ortho Pharmaceutical, Ltd., High Wycombe; B661,918-19. For pharmaceutical preparations (5); for appliances, instruments and apparatus for medical and surgical purposes (10).

"BEAUTYVAC"; by G. W. Willoughby, London, N.W.1; B666,352. For medical vacuum electrical equipment for stimulating the blood circulation (10).

"ALLURE"; by G. B. Kent & Sons, Ltd., London, W.1; 652,827. "RALTOS"; by Railton Supplies, Ltd., London, S.E.24; 665,817. For brushes (21).

(*From the "Trade Marks Journal," December 1*)

"SCUROL"; by Société des Usines Chimiques Rhône-Poulenc, Paris; 665,213. For all goods (1).

"NITRUMUS"; by Herbert Farmer Hart, Angmering-on-Sea; B665,772. For nitrogenous fertilisers (1).

"DOBB'S" on label design of people in period costume; by Cosmic Preparations, Ltd., London, E.C.4; B649,434 and B649,436-37. For perfumes and toilet preparations.

"MODITONE"; by J. Bibby & Sons, Ltd., Liverpool; 657,776. For aromatic chemicals for use as bases for synthetic perfumes (5).

"LUMA"; by Luma Products, Ltd., London, S.W.1; 662,023. "DEKUR" on label device (letters "T" and "M" and the words "Beauty," "Success" and "Health" disclaimed); by Amalgamated Beauty Preparations, Ltd., London, W.14; 652,404. Design of huntsman; by Peel Products, London, W.C.1; 661,225. "ENFIN . . . SEULS"; by Bienaimé, Paris; 666,566. "MORANA"; by Moore's (Sheffield), Ltd., Sheffield; 663,149. For non-medicated toilet preparations (3).

"HEXALYTE"; by L. J. Pointing & Son, Hexham-on-Tyne; 665,280. For detergents (3).

"SCOWLIES"; by Maria Hörnés, Ltd., London, W.1; 666,101. For non-medicated face plaster (3).

"CARTE-BLANCHE"; by Maria Hörnés, Ltd., London, W.1; 666,680. For perfumes and toilet waters (3).

"SOPRANO"; by Citrus Products Co., Ltd., Wembley; 666,913. For soaps (3).

"VARSITONE"; by Biochemicals (Oxford), Ltd., Oxford; 659,342. "POLYVITE"; by Vitamins, Ltd., London, W.6; 663,365. "TAMMIES"; by Sheldonian Products, Southport; 665,313. "TRESAMIDE"; by Sharp & Dohme, Ltd., Hoddesdon; 665,569. "INDICOLA"; by William Francis Mildren, Salisbury; 666,288. "TESPRIN"; by Therapeutic Products, Ltd., Greenford; 666,307. "STILPHEN"; by Pharmaceutical Laboratories, Geigy, Ltd., Manchester; 666,531. "PERHEPAR"; by Gedeon Richter (Great Britain), Ltd., London, N.W.5; B673,568. For pharmaceutical preparations (5).

"TROZETTE"; by George Wright Taylor, Leeds; 659,938. For medicated pastilles (5).

Design of huntsman; by Peel Products, London, W.C.1; 661,226. For disinfectants and insecticides, etc. (5).

"POLYVAL"; by Clinical Products, Ltd., Richmond; 661,824. "UMEDOLAX"; by the United Medicine Co., London, W.5; 666,765. "SALCOLAX"; by The British Drug Houses, Ltd., London, N.1; 666,955. For laxatives (5).

"OXOID"; by Liebig's Extract of Meat Co., Ltd., London, E.C.4; 665,344. For all goods (5).

"BISPAX"; by Splendor, Ltd., Nottingham; 665,770. For medicated preparations for stomach disorders (5).

"ZECOL"; by G. H. Zeal, Ltd., London, S.W.9; 666,292. For thermometers and hydrometers (5).

"VELDOWN"; by Velvet Crepe Paper Co., Ltd., Alperton; 666,688. For non-medicated toilet paper (16).

"ZENITH"; by Jules Frères, Ltd., London, S.E.17; 661,839. "LANFER" in distinctive lettering; by Langley, Ferguson & Co., Ltd., London, E.2; B662,324. For brushes (21).

"ALPOL"; by United Anodising, Ltd., London, E.C.2; 666,488. For combs and brushes (21).

"AUDRENE"; by Bennetts (Oldham), Ltd., Oldham; 670,403. For face-cloths (24).

"UPTO"; by Arthur Upton (London), Ltd., London, W.C.2; 662,381-82. For drinking straws (20), for combs and sponges (21).

(*From the "Trade Marks Journal," December 8*)

"TOPANAL"; by Imperial Chemical Industries, Ltd., Slough; 662,979. For phenols and aliphatic alcohols, etc. (1).

"CURNISOL"; by Shell Chemicals, Ltd., London, E.C.3; 665,217. "HILBERTAL"; by M. Hilbert & Co., Ltd., Isleworth; 665,886. For industrial, scientific, photographic and agricultural chemicals (1).

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION is holding a dinner and new year party at the Ardington Rooms, Clapham Junction, London, S.W.11, on Wednesday, January 5. Tickets (15s. 6d. each) may be obtained from Mr. C. Murgatroyd, 3 Shelgate Road, Battersea, London, S.W.11.

"Dost thou rise at seven in the morning, dost thou bend thy mind attentively to business, dost thou cheerfully ask leave for every absence and give a faithful account of thy time?"

At one time or another most of us receive advice from our parents, and Luke Howard founder of the firm of Howards was no exception.

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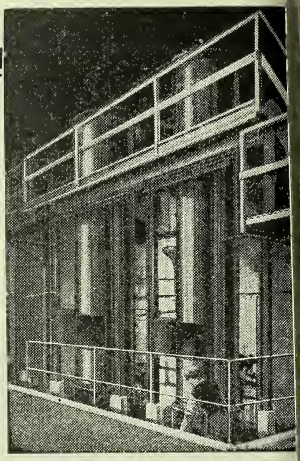
An impression of one of our Quinine Extraction Plants (Our own design)



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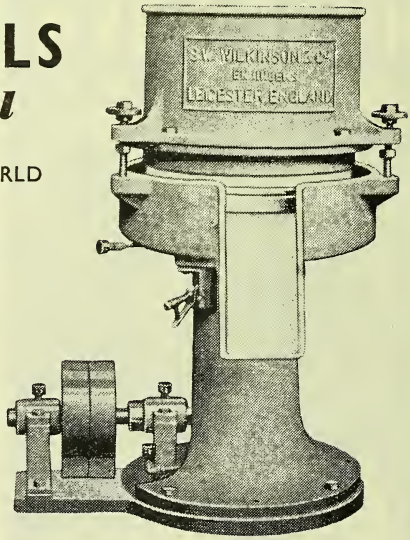

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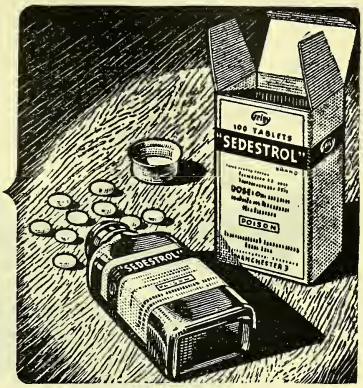

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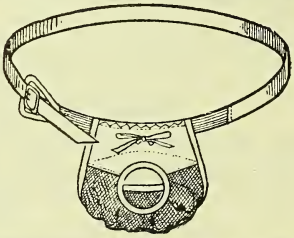

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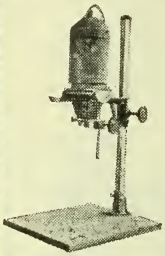

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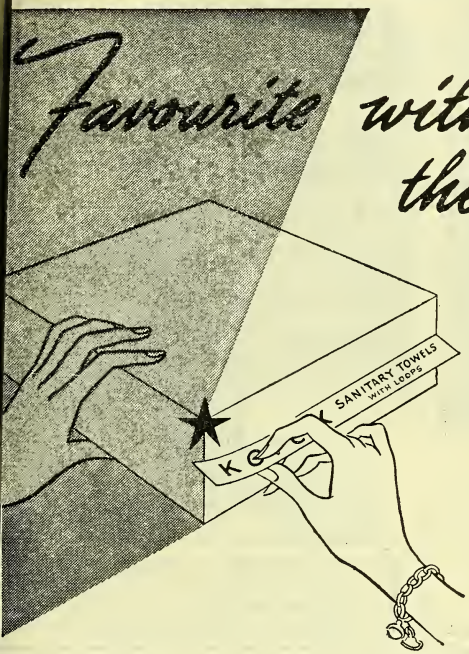

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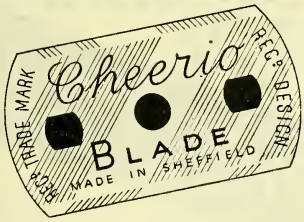

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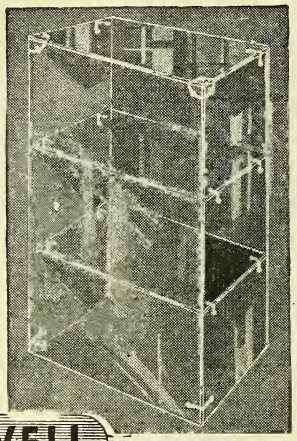

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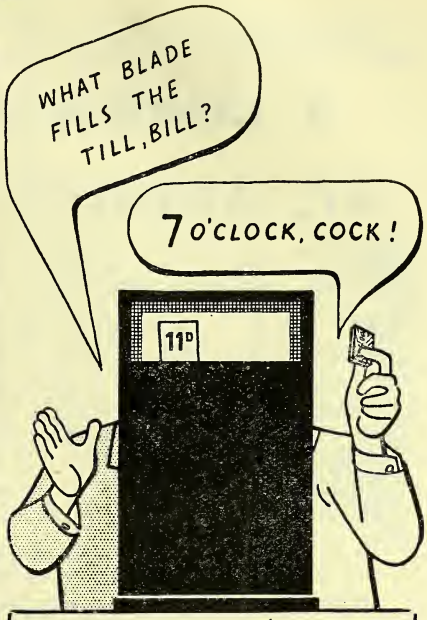

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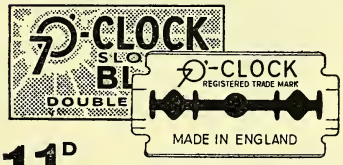

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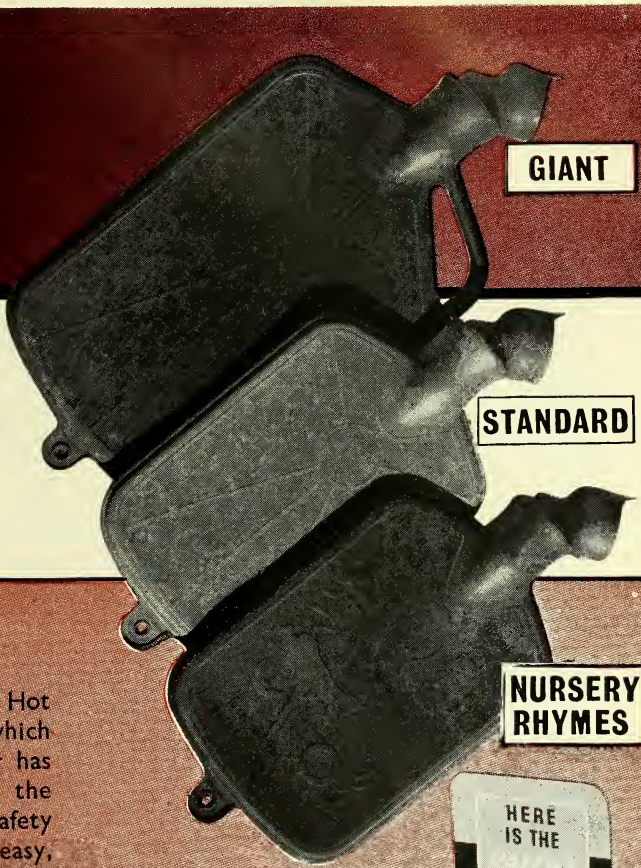

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71 Dartmouth Rd., London, S.E.23
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A concise survey of the herapeutic Field covered by M.O.

With the marked increase of Medical Work under the National Health Service Act, the time-saving writing of ℞ M.O. is appreciated by the busy practitioner:

GNESIA OIL is a most valuable medicine use it replaces unpalatable laxatives of the r type, which are as unpleasant as they are h in action.

GNESIA OIL is pure magnesia with ultra-ned laxative medicinal petroleum oil in an lsion of creamy consistency — bland in both e and action. The association of these two uable antacid and laxative medicines is onal and scientific, as acidity and constipation ost always occur together.

GNESIA OIL is not habit-forming and does require to have the dose increased. It does gripe, has no violent action and no unpleasant ction.

gnesia is antacid, absorbent, and an enemy to friendly bacteria. The oil is aperient and very thing to mucous membranes.

MAGNESIA OIL neutralizes the acids of the mouth which lead to dental decay, corrects acidity in the system by neutralizing its unwanted excess of acids in the stomach and bowels, and eliminates mischief-making toxins.

MAGNESIA OIL may be taken with safety at all ages. It contains nothing whatever of an irritating character.

MAGNESIA OIL is really pleasant to take. It has no marked flavour, and no after-taste — and unlike some other medicines it does not "repeat".

The Greatest Health Insurance is freedom from excess acids in the system, and a clean Alimentary Canal.

M.O. *Ensures Both*

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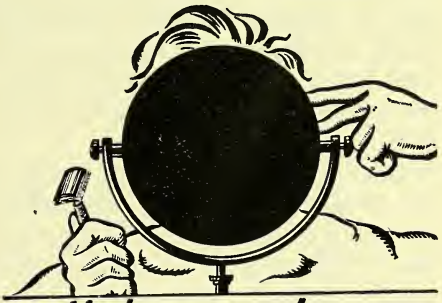

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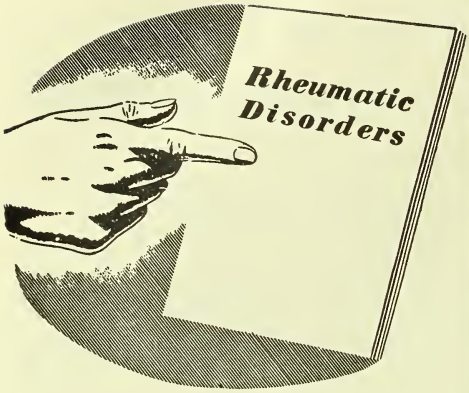

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KÖLLER'S discovery of the anæsthetic powers of cocaine disturbed the orthodox medical world of the 80's. But this was the age of discoveries and inventions — progress was on the march. It was in this inventive era that Scott's of Edinburgh introduced M.O.F. — a new idea in infant feeding. M.O.F. has changed much since 1887. But the same inventiveness and progressiveness has remained an essential part of Scott's policy. Today, Scott's of Edinburgh provide a whole range of infant foods for mixed-feeding time.

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The ready-cooked baby cereal fortified with essential vitamins and minerals.

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In use for sixty years. Contains added iron, calcium, phosphorus and vitamin D.

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A tempting variety of fruit, fish, meat and vegetable purees which help to prepare baby's taste-sense for normal food.

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MATHAPLAST

PLASTIC WATERPROOF FIRST AID DRESSING

ADVERTISEMENTS in the leading daily papers are building strong goodwill for these new Mathaplast dressings. Specially prepared by the makers of Mathaplast Fabric Elastic Dressings, they fill a definite demand for a washable dressing which is proof against oil and grease whilst fitting snugly and toning with the skin.

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THE *Modern* ANTACID..

Magtriz Tablets are an effective combination of Magnesium Trisilicate and Magnesium Hydroxide and provide prompt relief and prolonged control in all cases of Hyperchlorhydria as recommended by the Medical Profession.

MAGTRIZ
DIGESTIVE TABLETS

2 sizes, 7½d. and 1/6d.
Trade 4/- and 10/- per doz. plus P.T.
Both sizes packed in attractive outers.
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P.A.T.A

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PREPARED IN ACCORDANCE WITH THE THERAPEUTIC SUBSTANCES REGULATIONS (BRITISH PRODUCT)

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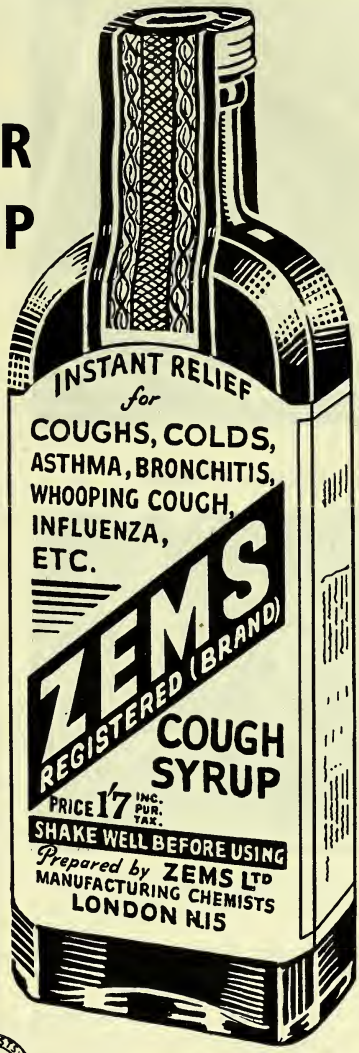
Specialists in Bronze Restoration and Maintenance

THE POPULAR COUGH SYRUP

Good for the young and good for the old



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Telephone: STAMFORD HILL 6658-9

It's a real winner!

This display will bring customers into your shop. That means increased business and more profit!
You can make an arresting show even on a 1½ foot high shelf. Look at the smaller photograph.
Don't delay. Write to-day for your showcard —for Display material, too (*stating width and height of display space*). Advertising for SevenSeaS this season will be stronger than ever.

MAKE THAT ADVERTISING WORK FOR YOU

SEVENSEAS PURE COD LIVER OIL

British Cod Liver Oils (Hull & Grimsby) Ltd.,
St. Andrew's Dock, Hull

Heading for Speedier Sales!

News! Increased advertising is spreading the story of BIOCRIN—the proved Shampoo-Reconditioner. Through more magazines more women are learning about this health-and-beauty treatment.

A Large Profit Margin and Regular Clientele For You!

Retail Sizes 18/6 and 30/- per dozen (plus 33⅓% tax) retailing at 3/- and 5/- each

Biocrin pomade shampoo

A product of Vine's Biocrin Ltd., London, W.2

Mai Daye

COMPLEXION SOAP

3 oz. 6 oz.

MADE BY

Comtesse Laboratories Ltd

CHATHAM PLACE, LONDON, E.9

TELEPHONE AMHERST 5640

200,000 Ready-made Customers

FORMULA	Normal %
Ext. Cascara Sag. Sicc. B.P.	25.625
Ext. Aloes B.P.C. - -	7.500
Ext. Leptandra B.P.C. -	2.083
Ext. Gentian B.P. - -	3.750
Ext. Taraxaci B.P.C. - -	7.500
Cerevis, Ferment. SICC. -	38.541
Mrryh. B.P. - - -	2.083
Lecithin (Ground Nut) -	3.750
Oleoresin Zingib - -	0.958
Base to - - - -	100.00

NOW TO BE DIRECTED TO CHEMISTS

For the past 12 years Dr. Janssen's Herbal Tablets have enjoyed direct sales to the public now numbering over 200,000. The demand to-day is such that sales through the usual Retail channels of distribution have become essential and this vast, ready-made market is now available to Retail Chemists all over the country.

A big and sustained advertising campaign in the National, Sunday and Provincial Press will announce the change-over, divert sales to the Retail and foster demand.

IERE ARE TWO SPECIAL PROFIT INTRODUCTORY BONUS OFFERS

BONUS PARCEL A

	Cost	Selling
One doz. 2/6 Dr. Janssen Tablets	16/-	24/-
One only 2/6 „ „ „	Free	2/-
Gives you 38.4% NETT PROFIT	16/-	26/-

BONUS PARCEL B

Two doz. 2/6 Dr. Janssen Tablets	32/-	48/-
½ „ 5/11 „ „ „	19/6	29/-
¼ „ 5/11 „ „ „	Free	14/6
Gives you 43.7% NETT PROFIT	51/6	91/6

excluding purchase Tax

Mark your order simply A or B parcel. It can go through your usual wholesaler if desired

Dr. Janssen's Herbal Tablets are packed in small and attractive display cartons. All parcels over £1 carriage free.

DR. JANSSEN'S HERBAL TABLETS

SOLE DISTRIBUTORS

HARRY A. PENNEY (DISTRIBUTORS) LTD.

Barclays Bank Chambers, Kendal, Westmorland

TWO CALFOS products of EXCEPTIONAL value

For samples and further information please write to:

1

POWDER

Calfos Powder is sterilized bone calcium phosphate, prepared without the use of chemicals, and having calcium and phosphorus present in natural ratio It is pure and of constant formula. Leading British manufacturers have proved Calfos Powder to be outstandingly successful for

FOOD FORTIFICATION

2

TABLETS

Calfos Tablets have two great advantages over ordinary calcium tablets. Firstly—they are more easily assimilated, and more effective, because they contain calcium and phosphorus in *natural* proportions. Secondly—they are palatable, being pleasantly lemon-flavoured. So order now. There is a ready sale to

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GLUCOSE BARLEY SUGAR

PLAIN, FRUITS & MINTS against M.O.F. transfer forms

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LIQUORICE & MENTHOL
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For Price List, terms & availability of supplies, please send today to:-

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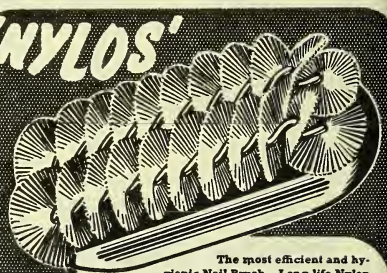
PHARMACEUTICAL LABORATORIES, SHEFFIELD 6 ENG

'NYLOS'



The most efficient and hygienic Nail Brush. Long-life Nylon with attractive moulded plastic grip.

Retail price 4/6 including tax.

HANDY HOLIDAY SIZE

Single-Row Nylon in plastic pack!

Retail price 3/5 including tax.

NYLOS DENTURE BRUSH

A proved favourite; designed for the thorough cleaning of any denture plate.

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Many thanks

for all you have done through the past year in displaying and recommending I.C.C. products

A Happy Christmas and a Very Profitable 1949

'ANADIN' TABLETS • 'BISODOL'
'BISURATED' MAGNESIA
'FREEZONE' CORN REMOVER
'KOLYNOS' PREPARATIONS
'PINATE' HONEY COUGH-SYRUP

INTERNATIONAL CHEMICAL CO. LTD
CHENIES STREET, LONDON, W.C.1

We are proud of our CENTURION

We are proud of our "CENTURION" — proud of the reputation he has earned amongst Chemists and their customers. We jealously guard that reputation, by ensuring that the high standard of quality of "CENTURION" Brand PASTILLES and LOZENGES is consistently maintained.

A Representative regularly tours your area. Would you like him to call?

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EST. 1817

ERNEST JACKSON & COMPANY LIMITED · CREDITON · DEVON

This product like all other "Broparco" preparations is of the highest uniform standard of quality and value. All our goods are manufactured under the personal supervision of qualified Chemists.

Arctic Glow in two sizes—2-oz. screw-capped jars and 1-oz. collapsible tubes.

Sole Manufacturers:
BROOK, PARKER & CO. LTD.
BRADFORD

JOHN KNOX · JOHN KNOX · JOHN KNOX

SLEEPYLAND BABY PRODUCTS

BOXED SINGLY and IN DISPLAY OUTERS

8oz. FEEDERS	(Boat Shape and Upright) reduction on 3 dz. and over.	10/- dz.
TEATS	(Straight and Cherry) 4 dz. in show outer.	2/3 dz.
SOOTHERS	ALL Rubber 2 dz. in show outer.	6/- dz.

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including :—

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ENEMAS (Boxed)		49/- dz.
EYE DROPPERS (Boxed)		3/4 dz.
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Complete list and special quotations on request.

John Knox

(Stoke-on-Trent) LTD.
Jaynox Works, King Street, Fenton, Staffs

JOHN KNOX · JOHN KNOX · JOHN KNOX

P1.4

Firm favourites!

with every member of the family . . . .

CUTICURA PREPARATIONS

(MEDICINAL AND TOILET)

SOAP · OINTMENT

TALCUM POWDER · SHAVING STICK

These grand aids for skin-care have been giving confidence and satisfaction for over 65 years. Profits are good — Advertising consistent and widespread. Sales-promoting window displays always at your service.

The following attractive products, each with a universal appeal, will shortly be added to the popular Cuticura Range:

HAND CREAM · BABY OIL

SHAVING CREAM · LIQUID ANTISEPTIC

AFTER-SHAVE LOTION

British Distributors: **NEWBERY & PHILLIPS LTD.**
203, Victoria House, Southampton Row, London, W.C.1
TELEPHONE: HOLBORN 1564

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THE POTTER DRUG & CHEMICAL CORPORATION
205-207, Victoria House, London, W.C.1

Winter Wisdom...

The 'Cold' Season calls for increased stocks of Serocalcin . . . . . .

P.A.T.A.

Wise chemists are maintaining a careful watch on their Serocalcin stocks. The demand is constantly increasing both for prophylaxis and treatment. Please order whilst supplies are plentiful and delivery can be effected quickly.

★ **Pharmacists are reminded that the sole selling agents for Serocalcin in the United Kingdom are J. C. Eno Ltd., Watford, Herts., (Watford 7761), to whom all orders and enquiries should be sent.**

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FOR THE PREVENTION AND TREATMENT OF COLDS

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Bucks. Three businesses and property for may be purchased separately. Turnovers 00, £3,800 and £1,500 respectively. Good ts. Living accommodation in each instance. reasonable purchase prices. Vendor rating to Africa.

Reigate, near. Country business, good class. nover this year about £6,500. New lease at 0 per ann. Attractive pharmacy fitted in oak. Purchase price required £2,750 plus s. Total purchase price under £4,000.

North London. Modern pharmacy, well situ- Turnover for last completed financial year ox. £4,600. Lease 18 years unexpired. Price ired for lease and goodwill £750 plus stock fittings at valuation.

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TH LONDON. Old-established pharmaceutical ss. Unrivalled position and prospects. Very ntial profits. Full particulars in strict confi- from Box 5/298.

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RETAIL (HOME)

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BOOTS THE CHEMISTS have vacancies in a number of districts for qualified assistants, male and female. Salary (male) Central London £8 15s. and £10 5s. Metropolitan District £8 7s. 6d. to £9 17s. 6d. Provinces £8 to £9 10s. (Female) Central London £8 5s. to £9 15s. Metropolitan District £7 17s. 6d. to £9 7s. 6d. Provinces £7 10s. to £9 according to age. Engagements are on a permanent basis with good prospects and eligibility for pension, life assurances, etc. There are also a number of vacancies for unqualified assistants fully trained in the business and including those dispensers who have been released by doctors, etc. Good remuneration with a view to permanency, pension scheme, etc. A bonus is paid to all staff engaged in dispensing. Applications should be made to Retail Staff Department, Station St., Nottingham, stating age, experience and districts preferred.

BUTT LANE INDUSTRIAL Co-operative Society, Ltd., require a qualified pharmacist to manage branch shop. Applications invited from pharmacists (male or female) stating age, experience, qualifications and salary required. Optical qualifications an advantage. Superannuation scheme in operation with transfer clause. Applications to General Manager, Congleton Rd., Butt Lane, Stoke-on-Trent.

DERBY CO-OPERATIVE Provident Society, Ltd., have an immediate vacancy for pharmacist (lady or gent.) in large establishment with numerous staff. A congenial, attractive position offering excellent opportunities to recently qualified person seeking experience and future prospects. Applications, with fullest particulars, including salary required, to Secretary, Albion St., Derby.

Situations Open—Continued

CHEMIST wanted with optical qualifications on C.P.C. list. Must be energetic. Salary with optical commission will amount to £1,000 per year. Good living accommodation is also available. Apply in writing, giving full particulars of age, experience and when free to Box 5/352.

CLAPHAM JUNCTION. Flat available and good prospects to energetic pharmacist willing to take over a branch management, and develop dispensing connection. Salary £520 per annum and commission. Excellent position near Clapham Junction. Apply Box 5/326.

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DOVER. Qualified and keen assistant wanted to develop N.H.S. Large family and prescribing trade. Accommodation available. Please state details, salary, etc., to Robinson, 197 London Rd., Dover.

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LONDON, E.2, near City. Qualified assistant for dispensing and counter. Good accommodation available away from business premises. Give full particulars of experience, age, names of references and salary expected. Apply (letter only), Pharmacist, 35 Sydner Rd., Stoke Newington, London, N.16.

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MARGERRISON, OAKEN GATES, Shropshire. Qualified assistant required at once. Modern hou available. Able to take charge and relieve branc managers. Good salary and prospects for a worke

MANCHESTER. Pharmacist, either sex, require for old-established pharmacy with good-class di pensing. No half-day or Sunday duties. Sta salary and full particulars, to Box 5/185.

OPPORTUNITY for qualified pharmacist. Pha macy branch manager required. Permanent, pr gressive and superannuated position. Good salar and status. Trade union hours, congenial workin conditions in an expanding service of a large societ Reply with usual particulars, to A. G. Davie Superintendent Chemist, Manchester and Salfor Equitable Co-operative Society, Ltd., 67 Downin St., Manchester, 1.

OPTICIAN (C.P.C. LIST) required by Derby Co operative Provident Society, Ltd., for busy prac tice. Expert refractionist. Modern equipment i use (Green's, B.R.U., etc.). Suit recently qualifie man to further his experience. Fullest particular including salary required, to Secretary, Albion St Derby.

ORRIDGE & CO., Employment Agency, 184 Stranc W.C.2. Temple Bar 9212/3. Branches at Soutl ampton and Birmingham. Enquiries invited fro all employers seeking staff. Many pharmacists an unqualified assistants available for retail and whole sale. Representatives also requiring situation Reasonable terms. Write to 184 Strand, W.C.2 fo particulars.

QUALIFIED CHEMIST as manager of dispensing de partment for very progressive position in Birmin ham. Box No. 421, S. C. Peacock, Ltd., 21 Leig St., Liverpool, 1.

REQUIRED TEMPORARILY, for about 3 month experienced dispenser, male or female, qualifie or unqualified. Salary according to ability an experience. Apply, stating salary expected, t Secretary, D. L. Lewis, Ltd., 36 Haven Greer Ealing, W.5.

RICKMANSWORTH. Pharmacist manager require for good-class business in attractive small towr Must be able to develop dispensing departmen Good salary and house available to suitable appl cant. Apply Box 5/325.

STOCKTAKERS required for duties in various di tricts. Applicants must possess retail experienc and up-to-date knowedge of prices, etc. Applica tions are invited from men below the age of 5 who are resident in the London area, Birmingha district or in Lancashire. The positions offer goo scope and opportunities in return for industriou and intelligent service. All replies treated in stric confidence. Box 5/330.

STREATHAM. Experienced manager required fo good-class branch in Streatham district. Accommo dation available. Excellent prospects. Permanen appointment to capable man. Apply Box 5/324.

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UNQUALIFIED MALE assistant required for bus West End pharmacy. Smart appearance and keen ness essential. Knowledge of surgical appliances etc., helpful. High salary. Staff profit-sharin scheme and pension scheme available. Staff roste system allows convenient hours. No Sundays. Ap ply in writing with full details, to Box 5/363.

UNQUALIFIED or qualifying assistant. Young ma wanted for S.E. London pharmacy. Salary accord ing to experience. Write Box 5/331.

£8 WEEKLY OFFERED unqualified assistant (eithe sex) for working and middle-class business wit busy N.H.S., within five minutes Waterloo Station London, S.E.1. Can wait if necessary for suitabl applicant. Write in confidence to Box 5/368.

SITUATIONS WANTED

rds 3/- (minimum) then 1d. per word. Box 1/-

RETAIL (HOME)

ED CHEMIST, large experience, active, seeks gement of southern country business with and garden. Will accept small salary and ission. Box 5/346.

WHOLESALE

UALIFIED PHARMACIST, B.Pharm., B.Sc., Inaged 25, with first-class credentials, seeks post good manufacturing or wholesale house or consider first-class retail establishment. Opnity for advancement and good prospects d. Correspondence invited. R. D. Tuli, B.Pharm., c/o Dr. R. L. Tuli, Dy. Director Health, New Colony, Nagpur, India.

RTISER seeks position London or Southern nd with scope to use first-class experience in asing. Accustomed to travelling. Excellent nces. Interview anywhere. Box 5/297.

RIENCED REPRESENTATIVE, qualified, shortly for re-engagement in Midlands area for firm gh repute. Box 5/251.

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RMACIST, with administrative experience in sale, manufacturing and sales, desires prove position with pharmaceutical manufacturouse. Outdoor position of interest. Valuable ction South Wales. Box 5/365.

S MANAGER with 25 years' experience in eting toilet preparations and pharmaceutical ucts in home and export markets. Well-known de. Box 5/201.

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NG MAN, married, at present company secreto engineers' merchants, desires to re-enter a facturing chemists. 5 years' war-time experiwith large company. Would especially like anage and help build up small firm. Hard, etic worker, but must have 5-day week. Ext references. L. M. Davison, 24 Witley , Southall, Middlesex.

-KNOWN SALES MANAGER, M.S.M.A., e free January 1 and would be pleased to hear reputable firm seeking a gentleman who has many years in sales management. Thoroughly ersant with market research, budgetary conadvertising, and all the vital statistics that make up an efficient sales organisation. The tiser is well-connected with overseas buyers also all the multiples, stores and Co-ops. Write 5/319.

APPOINTMENTS

2/6 per line (12 lines=1"). Box 2/-

OTTINGHAM GENERAL HOSPITAL
quired, ASSISTANT PHARMACIST oman), salary according to experience, 70-£450. Superannuation scheme in force. plications, together with three testimonials, be sent to H. M. Stanley, Secretary, Nottgham Area No. 1 Hospital Management mmittee.

BOTLEYS PARK HOSPITAL MANAGEMENT COMMITTEE
REGISTERED ASSISTANT PHARMACIST for Botleys Park Hospital, Chertsey, Surrey. J.N.C. (Hospital Staffs) salary, viz., £370 inclusive; annual increments up to £450 p.a. Previous experience may determine commencing salary. Recently qualified pharmacists, elegible. Whole-time, established, pensionable, subject to medical examination. Application, stating age, qualifications, experience, with copies of not more than three recent testimonials to Physician Superintendent, Botleys Park Hospital, Chertsey, Surrey.

SOUTHEND-ON-SEA HOSPITAL
GENERAL HOSPITAL, ROCHFORD
Applications are invited for the position of ASSISTANT PHARMACIST at the above Hospital. Candidates should hold one of the registrable qualifications of the Pharmaceutical Society. The salary is in accordance with the recommendations of the Joint Negotiating Committee (Hospital Staffs) i.e., £370 x £15 x £20(1) to £450 per annum. The commencing salary will depend upon previous hospital experience.

The position is subject to the provisions of the National Health Service (Superannuation) Regulations, 1947. Application forms may be obtained from, and must be returned as soon as possible to, the Medical Superintendent, General Hospital, Rochford, Essex.

J. C. FIELD, Secretary.
Hospital Managment Committee.
20 Warrior Square,
Southend-on-Sea.

NORTH MANCHESTER HOSPITAL MANAGEMENT COMMITTEE
MANCHESTER VICTORIA MEMORIAL JEWISH HOSPITAL, CHEETHAM, MANCHESTER, 8.
Applications are invited from REGISTERED PHARMACISTS for the post of Assistant Pharmacist. Salary according to J.N.C. Scale (Hospital Staffs). National Health Service Superannuation Scheme in force. Applications with full particulars and copies of not more than three testimonials as soon as possible to the General Superintendent at the Hospital.

FULHAM AND KENSINGTON HOSPITAL MANAGEMENT COMMITTEE
GROUP PATHOLOGICAL LABORATORY, ST. MARY ABBOTS HOSPITAL, MARLOES ROAD, KENSINGTON, W.8.
BIOCHEMIST required immediately. University graduate with previous experience in hospital biochemistry. Salary £600 x £35—£775 x £25—£800. Post is non-resident. Applications, giving full particulars, with copies of two testimonials or names of two referees, to Pathologist (C. & D. 34), by 28th December, 1948.

AGENCIES

36 words 17/6 (minimum) then 4d. per word. Box 2/-

AGENTS calling upon chemists are invited to introduce a newly marketed roll film (not ex-R.A.F.). Liberal commission paid on all new accounts. Panda Roll Film Company, 12 Laings Corner, Mitcham, Surrey

MANUFACTURERS and distributors require additional attractive products for sale to wholesale and retail chemists. Distribution covers whole of Lancashire, Yorkshire and the Midlands. Box 5/344.

MANUFACTURERS require agents with sound connection in the retail chemist trade, to sell nationally known brand of toilet roll and other paper products on a liberal commission basis. Write, stating age, experience and territory covered. Box 5/367.

Situations Open—Continued

CHEMIST wanted with optical qualifications on C.P.C. list. Must be energetic. Salary with optical commission will amount to £1,000 per year. Good living accommodation is also available. Apply in writing, giving full particulars of age, experience and when free to Box 5/352.

CLAPHAM JUNCTION. Flat available and good prospects to energetic pharmacist willing to take over a branch management, and develop dispensing connection. Salary £520 per annum and commission. Excellent position near Clapham Junction. Apply Box 5/326.

DARLINGTON. Pharmacist manager required urgently for busy dispensing and family business. Excellent scope and prospects. Salary 10 guineas plus bonus. Box 5/292.

DERBY (near). I have an immediate vacancy for an energetic and reliable qualified manager capable of taking charge of branch pharmacy. No living accommodation but good remuneration and prospects. Box 5/283.

DISPENSER required for busy family dispensing business. Applicants must be quick and accurate and have good experience. Please give full details of age, etc., to Tompsetts, 286 Broadway, Bexleyheath, Kent. Bexleyheath 181.

DORKING, SURREY. Wanted, unqualified lady assistant, principally as first counter hand. Knowledge of dispensing essential for emergency purposes only. Box 5/347.

DOVER. Qualified and keen assistant wanted to develop N.H.S. Large family and prescribing trade. Accommodation available. Please state details, salary, etc., to Robinson, 197 London Rd., Dover.

HALL & KING of Folkestone have the following vacancies: (a) Experienced qualified assistant; (b) experienced dispenser. Apply in first instance to 36 Grosvenor Gardens, London, N.14. Laburnum 2566.

HENDON. Manager required for shop with busy toilet, cosmetic and photographic departments. First-class man who must be used to very high-class trade preferably with knowledge of languages and able to deal with cosmopolitan clientele. M.P.S. is in charge of pharmacy. Box 5/345.

KEEN, ENERGETIC, unqualified assistant required immediately, mainly for dispensing. Good-class business in North London. Highest salary for right person. Please write Box 5/328.

LONDON, S.E.18. Pharmacist to take sole charge dispensing (no counter work). Good opportunity. Phone Woolwich 3607.

LONDON, E.2, near City. Qualified assistant for dispensing and counter. Good accommodation available away from business premises. Give full particulars of experience, age, names of references and salary expected. Apply (letter only), Pharmacist, 35 Sydner Rd., Stoke Newington, London, N.16.

LONDON CO-OPERATIVE CHEMISTS, LTD., because of extension, require several experienced pharmacists for branch managerial positions in the suburbs. Salary to be paid would vary between £550 and £650 per annum, plus other emoluments. It is quite possible that in certain instances accommodation may be provided. Application in first instance to Superintendent Chemist, Grange Rd., Leyton, E.10, when an appointment will be arranged to discuss promotion prospects.

MASONS THE CHEMISTS invite applications from keen, capable and progressive pharmacists for permanent positions as managers in newly-acquired businesses and branches. Good salaries and generous bonuses to successful applicants. The positions offered are in Durham and Northumberland. Pharmacist also required to be in control of drug department at Head Office. Apply 113 King St., South Shields. Phone 360.

MARGERRISON, OAKEN GATES, Shropshire. Qualified assistant required at once. Modern hou available. Able to take charge and relieve branc managers. Good salary and prospects for a worke

MANCHESTER. Pharmacist, either sex, require for old-established pharmacy with good-class di pensing. No half-day or Sunday duties. Sta salary and full particulars, to Box 5/185.

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UNQUALIFIED or qualifying assistant. Young ma wanted for S.E. London pharmacy. Salary accord ing to experience. Write Box 5/331.

£8 WEEKLY OFFERED unqualified assistant (eithe sex) for working and middle-class business wit busy N.H.S., within five minutes Waterloo Station London, S.E.1. Can wait if necessary for suitabl applicant. Write in confidence to Box 5/368.

Situations Open—Continued

WHOLESALE

A LEADING FIRM to baby food manufacturers invite applications from men of good social and trade standing between the age group 28-40, in connection with a vacancy for a pharmaceutical trade representative, to cover the Manchester area. The appointment is of a permanent character, carrying a good salary, pension scheme, and excellent prospects for personal advancement. Box 5/357.

AGENTS required with existing, sound connections with retail chemists to carry nationally advertised paper handkerchief. See advertisement Page xi.

AN OLD-ESTABLISHED London house require a young qualified assistant chemist, capable of conducting routine analysis of products, and supervision of poison. Write, giving full particulars of age, experience and salary required. Box 5/339.

APPLICATIONS are invited from young, energetic pharmacists for appointment to the sales staff of Trufood Limited to conduct medical propaganda in Lancashire, the Eastern and the North-eastern Counties. Applicants should be prepared to reside in the territories named. These positions offer excellent opportunities to men who want to make a career outside retail pharmacy. The appointments are permanent and carry a good salary with the advantage of a generous superannuation scheme. Cars are provided and full expenses paid. Full initial training will be given to successful applicants. Unqualified men with exceptional ability will be considered. Apply by letter, giving full details of age and experience, to Sales Director, Trufood, Limited, Bebington, Wirral, Cheshire.

ASSISTANT with some pharmaceutical experience required for pill department of manufacturing chemists in London area. Apply with full particulars and salary required. Box 5/341.

BRITISH SCHERING require the services of an experienced medical representative, with a pharmaceutical qualification, to take over part of the London area (including the teaching hospitals). Applicants should be under 35 years of age, have a sense of humour and be of good appearance. Full details of experience, together with a recent photograph, should be addressed to the Home Sales Manager, 167/169 Gt. Portland St., W.1.

CHEMIST required for latex factory in Birmingham. Experience in this work not essential. Full details, including age and salary required, to Transtex, 144 Oakfield Rd., Selly Oak, Birmingham, 29.

EXPERIENCED ESSENCE COMPOUNDER (male) required by Dubuis & Rowsell, Ltd., Croydon, Surrey. Position offers excellent opportunities. Those interested are invited to give, by letter, full particulars of academic training and practical experience, age and commencing remuneration expected. All replies treated in strictest confidence.

EXPERIENCED REPRESENTATIVES required for established chemists' lines for (1) Lancashire area, (2) S. London and S. Coast area. Please write full details of last three positions, to Box W.2629, Haddon's, Salisbury Sq., London, E.C.4.

EXPERIENCED REPRESENTATIVE wanted by manufacturers of surgical dressings, sanitary towels and druggists' sundries for Birmingham district to call on chemists and on drapers (for sanitary towels only); connection an advantage; salary, commission and expenses. Box 5/290.

GENERAL MANAGER required by leading pharmaceutical manufacturing house in the North. Applicant should be 35-40 and have a degree in pharmacy or Ph.C., preferably with experience in chemical manufacture. Duties consist of general management of all departments of a typical wholesale and manufacturing house under the board of directors. Good salary and conditions with excellent prospects for the right man who must possess initiative, energy and strength of character. Full details in confidence, to Box 5/327.

FREE LANCE traveller with sound connection chemists in Warwickshire, Worcestershire, Leicestershire and South Staffs, to sell on commission a first-class home dye. Apply Box No. B/A/56, The Chemist & Druggist, 111 New St., Birmingham, 2.

GEO. H. LAWRENCE, LTD., Sheffield, 3, require agent on commission basis (with part expenses) to promote the sale of Laurel Blades in London and Home Counties. Good connection with the retail trade, including chemists, Co-ops., hairdressers, etc., very essential.

LIVE WIRE representative required with existing connections for chemists and hairdressers, to take over all London area for well-known toilet manufacturer. Multiple stores and wholesalers connections given to right man. Box 5/362.

MANUFACTURER'S AGENTS required by proprietors of a C.F. product, supported by attractive sales aids and advertising. Must be gentlemen of good repute and have well-established connections. Territories, South and North-West Lancashire and Yorkshire. Commission and part expenses. Box 5/343.

MANUFACTURING CHEMISTS require unqualified assistants for drug packing department. Must be experienced in handling dry section, with a possibility of taking charge of department. Good salary; progressive position for suitable applicant. Five-day week. Apply to Box 5/243.

MEDICAL REPRESENTATIVES required by one of the leading London ethical pharmaceutical manufacturing houses for the following: London West territory, Bristol territory, Sheffield territory, Manchester territory, Newcastle territory. Applicants must have a sound pharmaceutical background. Knowledge of medical subjects an asset. Remuneration by salary and bonus, plus expenses. Full details, stating age, experience, etc., to Box 5/284.

MEDICAL WRITER. The British Drug Houses, Ltd., have a vacancy for a copywriter to assist in the preparation of brochures and Press advertisements. Previous experience an advantage but not essential if applicant can show evidence of literary ability and has some knowledge of medical representative work. Applications with fullest details of experience and stating salary required, should be addressed to the Personnel Manager, Ref. AS/LNB, The British Drug Houses, Ltd., Graham Street, London, N.1.

PHARMACIST (man or woman), preferably with manufacturing experience, required for S.W. London area. Applicants should give (in full confidence) detailed information of their experience. Salary £500 per annum. Apply Production Director, Box 5/349.

PHARMACIST with wholesale experience required by old-established firm of manufacturing and wholesale chemists in Southern Counties to be responsible for the checking of galenicals and chemicals before dispatch. The post offers scope for advancement for an experienced pharmacist with initiative, capable of accepting responsibility. Please give full details in first instance, stating if married, salary required, to Box 5/255.

PHARMACEUTICAL CHEMIST required for the galenical department of a manufacturing company in Scotland. Previous experience essential. Apply by letter, with copies of testimonials, to Box 5/366.

PHARMACEUTICAL HOUSE of the highest reputation require the services of a man who has had experience in a sales department, controlling representatives calling upon the medical and dental professions, and retail pharmacists. Must have special knowledge of compiling medical literature and advertisements. Apply, stating age, experience and salary required, to Box 5/26.

REPRESENTATIVE having established connection with chemists and departmental stores in Wales, Hereford, Shropshire and Monmouthshire, required by firm marketing nationally advertised proprietary lines. Salary, commission and expenses. Write, stating age, past experience and whether car owner to Box 5/317.

Situations Open—Continued

QUALIFIED ANALYST to take charge of research and routine analysis of products required by well-known manufacturing chemists. Knowledge of tableting an advantage, but not essential. Initial salary according to qualifications and experience. The position carries with it free accommodation in a comfortable self-contained flat, pleasant country town 36 miles London. Box 5/250.

QUALIFIED CHEMIST required by old-established firm to supervise dispensing on a manufacturing scale. Must have sufficient experience of analytical work to undertake routine controls and examination both of raw materials and finished products. Permanent position with good prospects with an expanding firm giving opportunity for some research work and development of ideas. Must have experience, ability and energy. Write, with full particulars and stating salary required, to Box 5/359.

REPRESENTATIVE required by old-established London house for Midland territory. Applicants should have live connection with retail chemists and preferably some previous retail experience, not necessarily qualified. Please state age, experience and remuneration required. Box 5/338.

REPRESENTATIVE, part-time, calling on chemists and stores in London and district, required by manufacturing chemists, to handle medicinal tablets and pills on generous commission terms. Write Box 5/158.

REPRESENTATIVE with own car and good connection with doctors and chemists in the South London area urgently required by a well-known firm of manufacturing chemists. Applicants should give full particulars of experience and remuneration required, to Box 5/350.

REPRESENTATIVES with connection chemists, stores, etc., for established wholesale house additionally distributing known popular priced perfumery and toilet series. Territories available: London, Yorkshire, Midlands, West England and Scotland. Good remuneration and permanency to men of initiative. Box 5/323.

REPRESENTATIVES required by well-known manufacturers of cotton wool sanitary towels, cotton wool, surgical dressings, for Lancs, Cheshire, Wales, East Coast, North Midlands. Commission basis. Please give full particulars, Box 5/355.

REPRESENTATIVES calling on retail chemists required by wholesalers for all areas to carry bathroom scale. Commission basis. Box 5/351.

SALE TILNEY (MARKETING), LTD., 3 Lloyds Ave., London, E.C.3, intend increasing their representative staff at once. Prompt applications are invited from men of integrity, having selling ability above the average, a keen interest in the marketing of agency lines. Payment is by salary, expenses and commission. Write now to H. V. Bleackley, Director, at above address, giving age and complete particulars, all, of course, in strictest confidence.

SUGAR COATER. An opportunity occurs for a first-class coater with experience in all types of plain and coloured work, to take charge of department of old-established London house. Write, giving details of age, experience and salary required. Box 5/340.

TABLET COATER. Wanted, a first-class coater, capable of handling all grades of work. London area. Apply, giving full details of age, experience and salary required. Box 5/342.

THE CROOKES LABORATORIES require a suitably qualified man, preferably with medical degrees, to take control of medical department. Experience in the compilation of medical literature and advertisements is essential and the position would also control clinical and pharmacological trials of new products. Full details of past experience, age and salary required should be supplied in the initial application to the General Manager, The Crookes Laboratories, Ltd., Gorst Road, Park Royal, N.W.10. Applications will be considered in the strictest confidence.

TABLET MAKER required by well-known pharmaceutical manufacturers in the London area. Knowledge of sugar coating. 5-day week. Apply, giving full details of previous experience, together with salary required, to Works Manager, Box 3442, T. G. Scott & Son, Ltd., Talbot House, 9 Arundel St., Strand, W.C.2.

TRAVELLERS required in all counties for one of the fastest selling 6d. products in pharmacy today. Only really live men need apply. A commission of 10 per cent. will be paid on all orders from territory. Only men who can earn an extra £20 per week need apply. Write Box 5/354.

UNQUALIFIED LADY required for testing and works laboratory of chemical manufacturers North London. Applications with full particulars, training, experience, if any, age and salary required, to Box 4/532.

WELL-INTRODUCED representatives required in several areas to sell an assortment of chemists' rubber sundries. No objection to other non-clashing lines. Details to Esco (Rubber), Ltd., 2 Stothard Pl., Bishopsgate, London, E.C.2.

WELL-KNOWN PLASTIC manufacturers of baby pants, etc., require representatives in all parts of Great Britain, to call upon chemists and druggists. Only first-class men with good connections need apply. Remuneration by way of salary, expenses and commission. Car owners preferred. Reply Box 5/332.

WHOLESALE MANUFACTURING CHEMISTS, north-east, require qualified production chemist; good experience essential; accommodation available. Excellent prospects for right applicant. Apply, stating full particulars and salary required, to Box 5/318.

WORKS CHEMIST. Graduate required by London firm of national repute, to take full charge of laboratory and factory control. Wide range of products. Preference given to keen industrious young man with thorough practical experience in all branches of the food trade. This is a permanent post, offers unlimited scope, and carries considerable responsibility. Salary £624 per annum, progressive basis. Full details in confidence, Box 5/358.

WORKS CHEMIST, must be qualified, required by manufacturing chemists, West London area. Applicants must be fully experienced in the manufacture of galenicals, ointments, etc., and also be able to make own assays. Five-day week. Permanent progressive position for suitable applicant. Write in first instance, stating age, experience, and salary required to Box 5/242.

WHOLESALE (OVERSEAS)

SINGAPORE. Sharp & Dohme, Ltd., require a first-class representative for Malaya, with headquarters in Singapore. Applicants must be qualified with up-to-date knowledge of modern therapeutics. Age between 25 and 35 years. Single. Initial term for 3 years. In addition to salary, generous high cost-of-living bonus and quarter's allowance paid. Apply Export Division, Sharp & Dohme, Ltd., Hoddesdon, Herts.

INDIA. Burroughs Wellcome & Co., have an interesting vacancy for a pharmacist with representative or administrative experience, on the staff of their Bombay house. Applicants should be single, aged 30-35, have a good knowledge of modern therapeutics and be prepared to visit the principal Indian cities at regular intervals in a supervisory capacity. The position is progressive and pensionable (contributory scheme). Applications (by letter only), which will be treated in the strictest confidence, should give fullest particulars and should be addressed to the Managing Director, Burroughs Wellcome & Co., 183-193 Euston Rd., London, N.W.1.

SITUATIONS WANTED

18 words 3/- (minimum) then 1d. per word. Box 1/-

RETAIL (HOME)

RETIRED CHEMIST, large experience, active, seeks management of southern country business with house and garden. Will accept small salary and commission. Box 5/346.

WHOLESALE

A QUALIFIED PHARMACIST, B.Pharm., B.Sc., Indian, aged 25, with first-class credentials, seeks post with good manufacturing or wholesale house or would consider first-class retail establishment. Opportunity for advancement and good prospects desired. Correspondence invited. R. D. Tuli, B.Sc., B.Pharm., c/o Dr. R. L. Tuli, Dy. Director Public Health, New Colony, Nagpur, India.

ADVERTISER seeks position London or Southern England with scope to use first-class experience in purchasing. Accustomed to travelling. Excellent references. Interview anywhere. Box 5/297.

EXPERIENCED REPRESENTATIVE, qualified, shortly open for re-engagement in Midlands area for firm of high repute. Box 5/251.

GENERAL MANAGER of company producing household chemicals requires change. Wide experience of home and export sales organisation and procedure, accountancy, costing, purchasing and publicity. Able to work on own initiative. Box 5/322.

GENTLEMAN, aged 40, 24 years' comprehensive experience in the pharmacy trade, including retail, wholesale and manufacturing, well experienced in factory and sales control, used to handling a large staff, seeks progressive situation with reputable firm. Box 5/301.

PHARMACIST, with administrative experience in wholesale, manufacturing and sales, desires progressive position with pharmaceutical manufacturing house. Outdoor position of interest. Valuable connection South Wales. Box 5/365.

SALES MANAGER with 25 years' experience in marketing toilet preparations and pharmaceutical products in home and export markets. Well-known to trade. Box 5/201.

SALES MANAGER seeks change. First-class connections with leading buyers. Past experience includes marketing of proprietaries and cosmetics. Thoroughly conversant with all phases of sales organisation. Widely travelled and linguist. Box 5/195.

YOUNG MAN, married, at present company secretary to engineers' merchants, desires to re-enter a manufacturing chemists. 5 years' war-time experience with large company. Would especially like to manage and help build up small firm. Hard, energetic worker, but must have 5-day week. Excellent references. L. M. Davison, 24 Witley Gdns., Southall, Middlesex.

WELL-KNOWN SALES MANAGER, M.S.M.A., will be free January 1 and would be pleased to hear from reputable firm seeking a gentleman who has had many years in sales management. Thoroughly conversant with market research, budgetary control, advertising, and all the vital statistics that go to make up an efficient sales organisation. The advertiser is well-connected with overseas buyers and also all the multiples, stores and Co-ops. Write Box 5/319.

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2/6 per line (12 lines=1"). Box 2/-

NOTTINGHAM GENERAL HOSPITAL

Required, ASSISTANT PHARMACIST (woman), salary according to experience, £370-£450. Superannuation scheme in force. Applications, together with three testimonials, to be sent to H. M. Stanley, Secretary, Nottingham Area No. 1 Hospital Management Committee.

BOTLEYS PARK HOSPITAL MANAGEMENT COMMITTEE

REGISTERED ASSISTANT PHARMACIST for Botleys Park Hospital, Chertsey, Surrey. J.N.C. (Hospital Staffs) salary, viz., £370 inclusive; annual increments up to £450 p.a. Previous experience may determine commencing salary. Recently qualified pharmacists, elegible. Whole-time, established, pensionable, subject to medical examination. Application, stating age, qualifications, experience, with copies of not more than three recent testimonials to Physician Superintendent, Botleys Park Hospital, Chertsey, Surrey.

SOUTHEND-ON-SEA HOSPITAL

GENERAL HOSPITAL, ROCHFORD

Applications are invited for the position of ASSISTANT PHARMACIST at the above Hospital. Candidates should hold one of the registrable qualifications of the Pharmaceutical Society. The salary is in accordance with the recommendations of the Joint Negotiating Committee (Hospital Staffs) i.e., £370 x £15 x £20(1) to £450 per annum. The commencing salary will depend upon previous hospital experience.

The position is subject to the provisions of the National Health Service (Superannuation) Regulations, 1947. Application forms may be obtained from, and must be returned as soon as possible to, the Medical Superintendent, General Hospital, Rochford, Essex.

J. C. FIELD, Secretary.
Hospital Managment Committee.

20 Warrior Square,
Southend-on Sea.

NORTH MANCHESTER HOSPITAL MANAGEMENT COMMITTEE

MANCHESTER VICTORIA MEMORIAL JEWISH HOSPITAL, CHEETHAM, MANCHESTER, 8.

Applications are invited from REGISTERED PHARMACISTS for the post of Assistant Pharmacist. Salary according to J.N.C. Scale (Hospital Staffs). National Health Service Superannuation Scheme in force. Applications with full particulars and copies of not more than three testimonials as soon as possible to the General Superintendent at the Hospital.

FULHAM AND KENSINGTON HOSPITAL MANAGEMENT COMMITTEE

GROUP PATHOLOGICAL LABORATORY, ST. MARY ABBOTS HOSPITAL, MARLOES ROAD, KENSINGTON, W.8.

BIOCHEMIST required immediately. University graduate with previous experience in hospital biochemistry. Salary £600 x £35—£775 x £25—£800. Post is non-resident. Applications, giving full particulars, with copies of two testimonials or names of two referees, to Pathologist (C. & D. 34), by 28th December, 1948.

AGENCIES

36 words 17/6 (minimum) then 4d. per word. Box 2/-

AGENTS calling upon chemists are invited to introduce a newly marketed roll film (not ex-R.A.F.). Liberal commission paid on all new accounts. Panda Roll Film Company, 12 Laings Corner, Mitcham, Surrey

MANUFACTURERS and distributors require additional attractive products for sale to wholesale and retail chemists. Distribution covers whole of Lancashire, Yorkshire and the Midlands. Box 5/344.

MANUFACTURERS require agents with sound connection in the retail chemist trade, to sell nationally known brand of toilet roll and other paper products on a liberal commission basis. Write, stating age, experience and territory covered. Box 5/367.

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WELL-ESTABLISHED distributors with first-class connections among chemists, stores, Co-ops., etc., in all parts of the country, are open to receive enquiries for marketing proven articles of all kinds. Let us include yours in our 1949 list. Write in confidence, Box 5/360.

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WELL-KNOWN REPRESENTATIVE covering Lancashire, Cheshire and North Wales territory, and having goodly connection with chemists, Co-op. stores, etc., on above territory, seeks additional representation. Pharmaceutical lines preferred though not essential. Retail experience. All propositions carefully considered and replied. Box 5/269.

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